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Challenging Boundaries - Heike Elisabeth Jüngst
2019-03-26

The contributions in this volume set out to understand and map parts of the vast territory of

specialized communication that have yet to be charted from a research perspective. Specific aspects from the fields of translation studies, technical communication and accessibility are

explored from different perspectives bringing new insights into how we conceptualize the practice of technical writing and translation. The findings of this expedition are of interest to researchers, practitioners and students of specialized communication.

Computer Systems Experiences of Users with and Without Disabilities - Simone Borsci
2013-11-18

This book provides the necessary tools for the evaluation of the interaction between the user who is disabled and the computer system that was designed to assist that person. The book creates an evaluation process that is able to assess the user's satisfaction with a developed system. Presenting a new theoretical perspective in the human computer interaction evaluation of disabled persons, it takes into account all of the individuals involved in the evaluation process.

Knowledge Management for Corporate Social Responsibility - Martín-de Castro, Gregorio
2020-09-04

In a changing and complex environment currently facing the main challenges of sustainable development, effective management of knowledge, intellectual assets, organizational learning, and talent management are the basis for social innovation and new ways of competition. In this sense, management and business practice are incorporating social and environmental demands made by all types of stakeholders to improve business decisions and strategies. Knowledge Management for Corporate Social Responsibility provides research exploring the theoretical and practical aspects of linking firm profitability, social development, and natural environment in respect to business management practices. Featuring coverage on a broad range of topics such as employer branding, intellectual capital, and organizational performance, this book is ideally designed for business professionals, small business owners, entrepreneurs, academicians, researchers, and business

students.

Software Quality Assurance - Claude Y. Laporte 2018-01-04

This book introduces Software Quality Assurance (SQA) and provides an overview of standards used to implement SQA. It defines ways to assess the effectiveness of how one approaches software quality across key industry sectors such as telecommunications, transport, defense, and aerospace. Includes supplementary website with an instructor's guide and solutions Applies IEEE software standards as well as the Capability Maturity Model Integration for Development (CMMI) Illustrates the application of software quality assurance practices through the use of practical examples, quotes from experts, and tips from the authors
[Building an Effective Security Program for Distributed Energy Resources and Systems](#) - Mariana Hentea 2021-04-06
Building an Effective Security Program for Distributed Energy Resources and Systems Build

a critical and effective security program for DERs Building an Effective Security Program for Distributed Energy Resources and Systems requires a unified approach to establishing a critical security program for DER systems and Smart Grid applications. The methodology provided integrates systems security engineering principles, techniques, standards, and best practices. This publication introduces engineers on the design, implementation, and maintenance of a security program for distributed energy resources (DERs), smart grid, and industrial control systems. It provides security professionals with understanding the specific requirements of industrial control systems and real-time constrained applications for power systems. This book: Describes the cybersecurity needs for DERs and power grid as critical infrastructure Introduces the information security principles to assess and manage the security and privacy risks of the emerging Smart Grid technologies Outlines the functions of the

security program as well as the scope and differences between traditional IT system security requirements and those required for industrial control systems such as SCADA systems Offers a full array of resources— cybersecurity concepts, frameworks, and emerging trends Security Professionals and Engineers can use Building an Effective Security Program for Distributed Energy Resources and Systems as a reliable resource that is dedicated to the essential topic of security for distributed energy resources and power grids. They will find standards, guidelines, and recommendations from standards organizations, such as ISO, IEC, NIST, IEEE, ENISA, ISA, ISACA, and ISF, conveniently included for reference within chapters.

Interactivity and the Future of the Human-Computer Interface - Isaias, Pedro 2020-03-27

The usability and design in technological systems is imperative due to their abundance in numerous professional industries. Computer

interfaces have seen significant advancement in their design and development as they have become an integral part of today's society. As humans continue to interact with technology on a regular basis, it is essential for professionals, professors, and students to keep pace with innovative research on interface design and the various applications interfaces have in professional fields. Interactivity and the Future of the Human-Computer Interface is a collection of innovative research on the development and application of interfaces in today's modern society and the generational implications for design of human and technology interaction. While highlighting topics including digital gaming, augmented reality, and e-learning, this book is ideally designed for educators, developers, web designers, researchers, technology specialists, scientists, and students seeking current research on modern advancements and applications in human-computer interaction.

Integrating Research and Practice in Software Engineering - Stan Jarzabek 2019-08-02

In this book, the authors highlight recent findings that hold the potential to improve software products or development processes; in addition, they help readers understand new concepts and technologies, and to see what it takes to migrate from old to new platforms. Some of the authors have spent most of their careers in industry, working at the frontiers of practice-based innovation, and are at the same time prominent researchers who have made significant academic contributions. Others work together with industry to test, in industrial settings, the methods they've developed in the lab. The choice of subject and authors represent the key elements of this book. Its respective chapters cover a wide range of topics, from cloud computing to agile development, applications of data science methods, re-engineering of aging applications into modern ones, and business and requirements

engineering. Taken together, they offer a valuable asset for practitioners and researchers alike.

Research Anthology on Usage and Development of Open Source Software -

Management Association, Information Resources 2021-06-25

The quick growth of computer technology and development of software caused it to be in a constant state of change and advancement. This advancement in software development meant that there would be many types of software developed in order to excel in usability and efficiency. Among these different types of software was open source software, one that grants permission for users to use, study, change, and distribute it freely. Due to its availability, open source software has quickly become a valuable asset to the world of computer technology and across various disciplines including education, business, and library science. The Research Anthology on

Usage and Development of Open Source Software presents comprehensive research on the design and development of open source software as well as the ways in which it is used. The text discusses in depth the way in which this computer software has been made into a collaborative effort for the advancement of software technology. Discussing topics such as ISO standards, big data, fault prediction, open collaboration, and software development, this anthology is essential for computer engineers, software developers, IT specialists and consultants, instructors, librarians, managers, executives, professionals, academicians, researchers, and students.

Proceedings of the Ninth International Conference on Dependability and Complex Systems DepCoS-RELCOMEX. June 30 - July 4, 2014, Brunów, Poland - Wojciech Zamojski
2014-05-16

DepCoS - RELCOMEX is an annual series of conferences organized by Wrocław University of

Technology to promote a comprehensive approach to evaluation of system performability which is now commonly called dependability. In contrast to classic analyses which were concentrated on reliability of technical resources and structures built from them, dependability is based on multi-disciplinary approach to theory, technology and maintenance of a system considered to be a multifaceted amalgamation of technical, information, organization, software and human (users, administrators, supervisors, etc.) resources. Diversity of processes being realized (data processing, system management, system monitoring, etc.), their concurrency and their reliance on in-system intelligence often severely impedes construction of strict mathematical models and calls for application of intelligent and soft computing methods. This book presents the proceedings of the Ninth International Conference on Dependability and Complex Systems DepCoS-RELCOMEX, which took place in Brunów Palace, Poland, from 30th

June to 4th July, 2014. The articles selected for this volume illustrate the variety of topics that must be included in system dependability analysis: tools, methodologies and standards for modelling, design and simulation of the systems, security and confidentiality in information processing, specific issues of heterogeneous, today often wireless, computer networks or management of transportation networks.

ECIME2015-9th European Conference on IS Management and Evaluation - Dr Elias

Pimenidis and Dr Mohammed Odeh 2015-09-07
The 9th European Conference on Information Management and Evaluation (ECIME) is being hosted this year by the University of the West of England, Bristol, UK on the 21-22 September 2015. The Conference Chair is Dr Elias Pimenidis, and the Programme Chair is Dr Mohammed Odeh both from the host University. ECIME provides an opportunity for individuals researching and working in the broad field of information systems management, including IT

evaluation to come together to exchange ideas and discuss current research in the field. This has developed into a particularly important forum for the present era, where the modern challenges of managing information and evaluating the effectiveness of related technologies are constantly evolving in the world of Big Data and Cloud Computing. We hope that this year's conference will provide you with plenty of opportunities to share your expertise with colleagues from around the world. The keynote speakers for the Conference are Professor Haris Mouratidis, from the School of Computing, Engineering and Mathematics, University of Brighton, UK who will address the topic "Rethinking Information Systems Security", Dr Mohammed Odeh, from the University of the West of England, Bristol, UK and Dr. Mario Kossmann from Airbus, UK who will talk about "The Significance of Information Systems Management and Evaluation in the Aerospace Industry" ECIME 2015 received an

initial submission of 55 abstracts. After the double-blind peer review process 28 academic Research papers, 5 PhD Research papers, 1 Masters Research paper and 3 Work in Progress papers have been accepted for these Conference Proceedings. These papers represent research from around the world, including Austria, Botswana, Cyprus, Czech Republic, Ireland, Japan, Kuwait, New Zealand, Norway, Poland, Portugal, Slovakia, Russia, South Africa, South Korea, Sweden, The Netherlands, UK and the USA.

Designing API-First Enterprise Architectures on Azure - Subhajit Chatterjee 2021-08-24

Innovate at scale through well-architected API-led products that drive personalized, predictive, and adaptive customer experiences
Key Features
Strategize your IT investments by modeling enterprise solutions with an API-centric approach
Build robust and reliable API platforms to boost business agility and omnichannel delivery
Create digital value chains

through the productization of your APIs
Book Description
API-centric architectures are foundational to delivering omnichannel experiences for an enterprise. With this book, developers will learn techniques to design loosely coupled, cloud-based, business-tier interfaces that can be consumed by a variety of client applications. Using real-world examples and case studies, the book helps you get to grips with the cloudbased design and implementation of reliable and resilient API-centric solutions. Starting with the evolution of enterprise applications, you'll learn how API-based integration architectures drive digital transformation. You'll then learn about the important principles and practices that apply to cloud-based API architectures and advance to exploring the different architecture styles and their implementation in Azure. This book is written from a practitioner's point of view, so you'll discover ideas and practices that have worked successfully in various customer

scenarios. By the end of this book, you'll be able to architect, design, deploy, and monetize your API solutions in the Azure cloud while implementing best practices and industry standards. What you will learn

Explore the benefits of API-led architecture in an enterprise

Build highly reliable and resilient, cloud-based, API-centric solutions

Plan technical initiatives based on Well-Architected Framework principles

Get to grips with the productization and management of your API assets for value creation

Design high-scale enterprise integration platforms on the Azure cloud

Study the important principles and practices that apply to cloud-based API architectures

Who this book is for

This book is for solution architects, developers, engineers, DevOps professionals, and IT decision-makers who are responsible for designing and developing large distributed systems. Familiarity with enterprise solution architectures and cloud-based design will help you to comprehend the concepts covered in the

book easily.

Computational Science and Its Applications

- **ICCSA 2016** - Osvaldo Gervasi 2016-06-30

The five-volume set LNCS 9786-9790 constitutes the refereed proceedings of the 16th International Conference on Computational Science and Its Applications, ICCSA 2016, held in Beijing, China, in July 2016. The 239 revised full papers and 14 short papers presented at 33 workshops were carefully reviewed and selected from 849 submissions. They are organized in five thematical tracks: computational methods, algorithms and scientific applications; high performance computing and networks; geometric modeling, graphics and visualization; advanced and emerging applications; and information systems and technologies.

Theory of User Engineering - Masaaki Kurosu 2016-12-01

This book outlines the new concept of user engineering and covers the diversity of users, along with the business process that includes

the design and the user's experience processes. Although the concept of user experience (UX) has become popular, the definition and the methodology are still ambiguous. User engineering is similar to the user-centered design, but differs in that its scope is not limited to the design process but concerns the whole manufacturing process and the whole usage process, i.e., the whole lifecycle of an artifact. User's perspective is strongly emphasized in this book, hence, its stance is far from that of the marketing approach that usually fails to notice the life and experiences of users after the purchase of an artifact as consumers. Theory of User Engineering differentiates between the quality in design and the quality in use, and the objective quality characteristics and the subjective quality characteristics. In addition to the user research using ethnographic methods, the author introduces a new approach based on the artifact evolution theory that can be adopted in the planning stage.

Balancing Agile and Disciplined Engineering and Management Approaches for IT Services and Software Products - Mora, Manuel 2020-07-10

The highly dynamic world of information technology service management stresses the benefits of the quick and correct implementation of IT services. A disciplined approach relies on a separate set of assumptions and principles as an agile approach, both of which have complicated implementation processes as well as copious benefits. Combining these two approaches to enhance the effectiveness of each, while difficult, can yield exceptional dividends. Balancing Agile and Disciplined Engineering and Management Approaches for IT Services and Software Products is an essential publication that focuses on clarifying theoretical foundations of balanced design methods with conceptual frameworks and empirical cases. Highlighting a broad range of topics including business trends, IT service, and software development, this book is ideally designed for software engineers,

software developers, programmers, information technology professionals, researchers, academicians, and students.

Reusability for Intelligent Realtime Interactive Systems - Dennis Wiebusch 2016-09-20

With recent releases of affordable hardware devices the fields of Virtual, Mixed, and Augmented Reality gained considerable attention, wherefore the creation of corresponding software becomes increasingly important. In the absence of a common model for flexibly combining and reusing appropriate software modules, such Realtime Interactive Systems are commonly implemented from scratch. Borrowing from the fields of Software Engineering and Knowledge Representation, this work develops a model for the creation of reusable components from existing software modules. With a Knowledge Representation Layer at its core the model additionally enables the utilization of methods from the field of Artificial Intelligence, thereby supporting the

creation of Intelligent Realtime Interactive Systems.

Software Quality: The Complexity and Challenges of Software Engineering and Software Quality in the Cloud - Dietmar Winkler 2019-01-07

This book constitutes the refereed proceedings of the 11th Software Quality Days Conference, SWQD 2019, held in Vienna, Austria, in January 2019. The Software Quality Days (SWQD) conference started in 2009 and has grown to the biggest conference on software quality in Europe with a strong community. The program of the SWQD conference is designed to encompass a stimulating mixture of practical presentations and new research topics in scientific presentations. The guiding conference topic of the SWQD 2019 is “The Complexity and Challenges of Software Engineering and Software Quality in the Cloud”. The 5 full papers and 3 short papers presented in this volume were carefully reviewed and selected from 17

submissions. The volume also contains 2 invited talks. The contributions were organized in topical sections named: multi-disciplinary systems and software engineering; software quality and process improvement; software testing; knowledge engineering and machine learning; source code analysis; and software maintenance.

Proceedings of the First International Conference on Advanced Data and Information Engineering (DaEng-2013) -

Tutut Herawan 2013-12-14

The proceeding is a collection of research papers presented at the International Conference on Data Engineering 2013 (DaEng-2013), a conference dedicated to address the challenges in the areas of database, information retrieval, data mining and knowledge management, thereby presenting a consolidated view to the interested researchers in the aforesaid fields. The goal of this conference was to bring together researchers

and practitioners from academia and industry to focus on advanced on data engineering concepts and establishing new collaborations in these areas. The topics of interest are as follows but are not limited to: • Database theory • Data management • Data mining and warehousing • Data privacy & security • Information retrieval, integration and visualization • Information system • Knowledge discovery in databases • Mobile, grid and cloud computing • Knowledge-based • Knowledge management • Web data, services and intelligence

Cybersecurity Investments - Stefan Beissel
2016-02-29

This book offers readers essential orientation on cybersecurity safeguards, and first and foremost helps them find the right balance between financial expenditures and risk mitigation. This is achieved by pursuing a multi-disciplinary approach that combines well-founded methods from economics and the computer sciences. Established decision making techniques are

embedded into a walk-through for the complete lifecycle of cybersecurity investments. Insights into the economic aspect of the costs and benefits of cybersecurity are supplemented by established and innovative economic indicators. Readers will find practical tools and techniques to support reasonable decision making in cybersecurity investments. Further, they will be equipped to encourage a common understanding using economic aspects, and to provide cost transparency for the senior management.

Trustworthy Computing and Services - Yuyu Yuan 2013-01-05

This book constitutes the refereed proceedings of the International Standard Conference on Trustworthy Distributed Computing and Services, ISCTCS 2012, held in Beijing, China, in May/June 2012. The 92 revised full papers presented were carefully reviewed and selected from 278 papers. The topics covered are architecture for trusted computing systems, trusted computing platform, trusted systems

build, network and protocol security, mobile network security, network survivability and other critical theories and standard systems, credible assessment, credible measurement and metrics, trusted systems, trusted networks, trusted mobile network, trusted routing, trusted software, trusted operating systems, trusted storage, fault-tolerant computing and other key technologies, trusted e-commerce and e-government, trusted logistics, trusted internet of things, trusted cloud and other trusted services and applications.

Systems, Software and Services Process Improvement - Xabier Larrucea 2018-08-22

This volume constitutes the refereed proceedings of the 25th European Conference on Systems, Software and Services Process Improvement, EuroSPI conference, held in Bilbao, Spain, in September 2018. The 56 revised full papers presented were carefully reviewed and selected from 95 submissions. They are organized in topical sections on SPI

context and agility, SPI and safety testing, SPI and management issues, SPI and assessment, SPI and safety critical, gamifySPI, SPI in industry 4.0, best practices in implementing traceability, good and bad practices in improvement, safety and security, experiences with agile and lean, standards and assessment models, team skills and diversity strategies, SPI in medical device industry, empowering the future infrastructure.

Building Maintainable Software, Java Edition - Joost Visser 2016-01-28

Have you ever felt frustrated working with someone else's code? Difficult-to-maintain source code is a big problem in software development today, leading to costly delays and defects. Be part of the solution. With this practical book, you'll learn 10 easy-to-follow guidelines for delivering Java software that's easy to maintain and adapt. These guidelines have been derived from analyzing hundreds of real-world systems. Written by consultants from

the Software Improvement Group (SIG), this book provides clear and concise explanations, with advice for turning the guidelines into practice. Examples for this edition are written in Java, while our companion C# book provides workable examples in that language. Write short units of code: limit the length of methods and constructors Write simple units of code: limit the number of branch points per method Write code once, rather than risk copying buggy code Keep unit interfaces small by extracting parameters into objects Separate concerns to avoid building large classes Couple architecture components loosely Balance the number and size of top-level components in your code Keep your codebase as small as possible Automate tests for your codebase Write clean code, avoiding "code smells" that indicate deeper problems
Modeling and Prototyping New Smart Learning Management Systems - Ouadoud, Mohammed 2021-05-21

We are currently witnessing the launch and

development of many new learning management system (LMS) innovations whose main objective is to meet society's requirements and the knowledge economy, which is fully emerging. Understanding new LMS innovations is essential for the improvement of the training and learning processes. To effectively implement these new LMSs in the classroom, teachers and trainers need access to real-life cases in which these methods were successfully used. New smart LMSs should be easy to use and to administer online educational content to ensure better adaptation to course teaching and learning styles. Therefore, it is necessary to find a method of modeling for all types of LMS. By combining learning theories that have long inspired the design of computer applications and putting them into perspective with emerging education features, a new smart LMS can be developed and studied. Modeling and Prototyping New Smart Learning Management Systems is a critical scholarly resource that

examines current advances in educational innovation and presents cases that allow for the improvement of personalized and active learning. It examines diverse issues of social, organizational, economic, cultural, and technological context related to internal and external management of learning and teaching and their technological improvements. The chapters cover issues, methods, models, constructs, solution applications, or specific architectures and theories in LMS and feature a wide range of topics such as higher education, teacher education, and learning strategies. This book is ideal for graduate-level students, researchers and industry practitioners, engineers, research scientists/academicians, educational administrators, educational professionals, teachers and professors, and researchers involved in practical applications of engineering-pedagogical and didactic aspects in learning management systems.

[New Perspectives in Technology Transfer](#) - Dana

Mietzner 2021-02-06

This edited book presents research results that are relevant for scientists, practitioners and policymakers who engage in knowledge and technology transfer from different perspectives. Empirical and conceptual chapters present original approaches regarding the current practice and policies behind technology transfer. By providing analyses at the macro, meso and micro-level, the respective chapters demonstrate how technology is moving from various organizational contexts into new institutions and becoming a critical aspect for competitiveness.

Building Maintainable Software, Java Edition -

Joost Visser 2016-01-28

Have you ever felt frustrated working with someone else's code? Difficult-to-maintain source code is a big problem in software development today, leading to costly delays and defects. Be part of the solution. With this practical book, you'll learn 10 easy-to-follow guidelines for delivering Java software that's

easy to maintain and adapt. These guidelines have been derived from analyzing hundreds of real-world systems. Written by consultants from the Software Improvement Group (SIG), this book provides clear and concise explanations, with advice for turning the guidelines into practice. Examples for this edition are written in Java, while our companion C# book provides workable examples in that language. Write short units of code: limit the length of methods and constructors Write simple units of code: limit the number of branch points per method Write code once, rather than risk copying buggy code Keep unit interfaces small by extracting parameters into objects Separate concerns to avoid building large classes Couple architecture components loosely Balance the number and size of top-level components in your code Keep your codebase as small as possible Automate tests for your codebase Write clean code, avoiding "code smells" that indicate deeper problems

Building Maintainable Software, C# Edition

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- Joost Visser 2016-06-08

Have you ever felt frustrated working with someone else's code? Difficult-to-maintain source code is a big problem in software development today, leading to costly delays and defects. Be part of the solution. With this practical book, you'll learn 10 easy-to-follow guidelines for delivering C# software that's easy to maintain and adapt. These guidelines have been derived from analyzing hundreds of real-world systems. Written by consultants from the Software Improvement Group (SIG), this book provides clear and concise explanations, with advice for turning the guidelines into practice. Examples for this edition are written in C#, while our companion Java book provides clear examples in that language. Write short units of code: limit the length of methods and constructors Write simple units of code: limit the number of branch points per method Write code once, rather than risk copying buggy code Keep unit interfaces small by extracting parameters

into objects Separate concerns to avoid building large classes Couple architecture components loosely Balance the number and size of top-level components in your code Keep your codebase as small as possible Automate tests for your codebase Write clean code, avoiding "code smells" that indicate deeper problems

Handbook of Research on Modernization and Accountability in Public Sector

Management - Azevedo, Graça Maria do Carmo
2018-03-02

The effects of recent economic and financial crises have reached an international scale. A number of different nations have experienced the fallout of these events, calling into question issues of accountability and reform in public management. The Handbook of Research on Modernization and Accountability in Public Sector Management is an essential scholarly publication that focuses on responsibility within public sector institutions and the importance of these institutions being ethical, transparent, and

rigorous. Featuring coverage on a broad range of topics, such as corporate social responsibility, e-government, and financial accountability, this publication is geared toward regulatory authorities, researchers, managers, and professionals working in the public domain.

Digging into Software Knowledge Generation in Cultural Heritage - Patricia Martin-Rodilla
2017-10-14

This book focuses on innovative strategies to manage and build software systems for generating new knowledge from large archaeological data sets. The book also reports on two case studies carried out in real-world scenarios within the Cultural Heritage setting. The book presents an original conceptual framework for developing software solutions to assist the knowledge generation process in connection with large archaeological data sets and related cultural heritage information— a context in which the inputs are mainly textual sources written in freestyle, i.e. without a

predetermined, standard structure. Following an in-depth exploration of recent works on the knowledge generation process in the above-mentioned context and IT-based options for facilitating it, the book proposes specific new techniques capable of capturing the structure and semantics implicit in such textual sources, and argues for using this information in the knowledge generation process. The main result is the development of a conceptual framework that can accommodate textual sources and integrate the information included in them into a software engineering framework. The said framework is meant to assist cultural heritage professionals in general, and archaeologists in particular, in both knowledge extraction and the subsequent decision-making process.

Systems and Software Quality - Martin Wiczorek
2014-05-08

Software and systems quality is playing an increasingly important role in the growth of almost all – profit and non-profit – organisations.

Quality is vital to the success of enterprises in their markets. Most small trade and repair businesses use software systems in their administration and marketing processes. Every doctor's surgery is managing its patients using software. Banking is no longer conceivable without software. Aircraft, trucks and cars use more and more software to handle their increasingly complex technical systems. Innovation, competition and cost pressure are always present in on-going business decisions. The question facing all these organisations is how to achieve the right quality of their software-based systems and products; how to get the required level of quality, a level that the market will reward, a level that mitigates the organisation's risks and a level that the organisation is willing to pay for. Although a number of good practices are in place, there is still room for huge improvements. Thus, let us take a look into the two worlds of "Embedded systems" and "ICT systems" and let us learn

from both worlds, from overlaps and individual solutions. The next step for industrialisation in the software industry is required now. Hence, three pillars will be focused in this book: (1) a fundamental notion of right software and systems quality (RiSSQ); (2) portfolio management, quality governance, quality management, and quality engineering as holistic approach over the three layers of an enterprise, i.e. strategic, tactical, and operational layer; and (3) an industrialisation framework for implementing our approach.

Gamification - Stefan Stieglitz 2016-10-04

This compendium introduces game theory and gamification to a number of different domains and describes their professional application in information systems. It explains how playful functions can be implemented in various contexts and highlights a range of concrete scenarios planned and developed for several large corporations. In its first part the book presents the fundamentals, concepts and

theories of gamification. This is followed by separate application-oriented sections – each containing several cases – that focus on the use of gamification in customer management, innovation management, teaching and learning, mobile applications and as an element of virtual worlds. The book offers a valuable resource for readers looking for inspiration and guidance in finding a practical approach to gamification.

Human Aspects of Information Security, Privacy, and Trust - Theo Tryfonas 2016-07-04
This book constitutes the proceedings of the 4th International Conference on Human Aspects of Information Security, Privacy, and Trust, HAS 2016, held as part of the 18th International Conference on Human-Computer Interaction, HCII 2016, held in Toronto, ON, Canada, in July 2016 and received a total of 4354 submissions, of which 1287 papers were accepted for publication after a careful reviewing process. These papers address the latest research and development efforts and highlight the human

aspects of design and use of computing systems. The papers thoroughly cover the entire field of Human-Computer Interaction, addressing major advances in knowledge and effective use of computers in a variety of application areas. The 25 papers presented in the HAS 2016 proceedings are organized in topical sections as follows: human factors of authentication; security, privacy, and human behavior; and security technologies.

Software Testing Foundations - Andreas Spillner 2014-03-19

Professional testing of software is an essential task that requires a profound knowledge of testing techniques. The International Software Testing Qualifications Board (ISTQB) has developed a universally accepted, international qualification scheme aimed at software and system testing professionals, and has created the Syllabi and Tests for the "Certified Tester." Today about 300,000 people have taken the ISTQB certification exams. The authors of

Software Testing Foundations, 4th Edition, are among the creators of the Certified Tester Syllabus and are currently active in the ISTQB. This thoroughly revised and updated fourth edition covers the "Foundations Level" (entry level) and teaches the most important methods of software testing. It is designed for self-study and provides the information necessary to pass the Certified Tester-Foundations Level exam, version 2011, as defined by the ISTQB. Also in this new edition, technical terms have been precisely stated according to the recently revised and updated ISTQB glossary. Topics covered: Fundamentals of Testing Testing and the Software Lifecycle Static and Dynamic Testing Techniques Test Management Test Tools Also mentioned are some updates to the syllabus that are due in 2015.

Book Series Increasing Productivity of Software Development, Part 2: Management Model, Cost Estimation and KPI Improvement - Stefan Luckhaus 2018-06-08

Book Series: "Increasing Productivity of Software Development": In software development, productivity is a measure of how much functionality can be developed in a given time and in compliance with specified quality criteria. If an increase in productivity succeeds, this increases the scope of the developed functionality and reduces the required time. Both features are desirable because software is the stuff innovations are made of. IT has changed almost all areas of life thanks to fundamental innovations. Our future will be dominated by virtualization and smart helpers, that is, devices equipped with intelligence. This makes software development a key competence. Today, for companies that develop software, productivity as well as time and quality, are critical success factors. By introducing standards and automation, productivity in software development has been demonstrably increased by a factor of 20. The reutilization of functional and technical components has already

enabled measurements of a factor of 100. Such performance differences are only reproducible by measurements and the consistent use of measurement results within a management model designed for continuous optimization.

Part 2: Management Model, Cost Estimation and KPI Improvement: This book describes a model based on three key performance indicators: productivity (measured using the measurement methods described in the first book), cost and quality. It explains their cyclical collection, analytical evaluation and indicators that lead to improvement measures in important areas of influence. In order to be able to assess the benefits of the measures in advance, it provides empirical values as well as a method for calculating their effectiveness. The model described above serves as a navigation tool for the management, enabling them to constantly view both direction and speed of its key performance indicators.

Software Quality - Daniel Galin 2018-02-15

The book presents a comprehensive discussion on software quality issues and software quality assurance (SQA) principles and practices, and lays special emphasis on implementing and managing SQA. Primarily designed to serve three audiences; universities and college students, vocational training participants, and software engineers and software development managers, the book may be applicable to all personnel engaged in a software projects

Features: A broad view of SQA. The book delves into SQA issues, going beyond the classic boundaries of custom-made software development to also cover in-house software development, subcontractors, and readymade software. An up-to-date wide-range coverage of SQA and SQA related topics. Providing comprehensive coverage on multifarious SQA subjects, including topics, hardly explored till in SQA texts. A systematic presentation of the SQA function and its tasks: establishing the SQA processes, planning, coordinating, follow-up,

review and evaluation of SQA processes. Focus on SQA implementation issues. Specialized chapter sections, examples, implementation tips, and topics for discussion. Pedagogical support: Each chapter includes a real-life mini case study, examples, a summary, selected bibliography, review questions and topics for discussion. The book is also supported by an Instructor's Guide.

Testing in Scrum - Tilo Linz 2014-03-28

These days, more and more software development projects are being carried out using agile methods like Scrum. Agile software development promises higher software quality, a shorter time to market, and improved focus on customer needs. However, the transition to working within an agile methodology is not easy. Familiar processes and procedures change drastically. Software testing and software quality assurance have a crucial role in ensuring that a software development team, department, or company successfully implements long-term agile development methods and benefits from

this framework. This book discusses agile methodology from the perspective of software testing and software quality assurance management. Software development managers, project managers, and quality assurance managers will obtain tips and tricks on how to organize testing and assure quality so that agile projects maintain their impact. Professional certified testers and software quality assurance experts will learn how to work successfully within agile software teams and how best to integrate their expertise. Topics include: Agile methodology and classic process models How to plan an agile project Unit tests and test first approach Integration testing and continuous integration System testing and test nonstop Quality management and quality assurance Also included are five case studies from the manufacturing, online-trade, and software industry as well as test exercises for self-assessment. This book covers the new ISTQB Syllabus for Agile Software Testing and is a

relevant resource for all students and trainees worldwide who plan to undertake this ISTQB certification.

Pragmatic Evaluation of Software Architectures - Jens Knodel 2016-06-07

Thorough and continuous architecting is the key to overall success in software engineering, and architecture evaluation is a crucial part of it. This book presents a pragmatic architecture evaluation approach and insights gained from its application in more than 75 projects with industrial customers in the past decade. It presents context factors, empirical data, and example cases, as well as lessons learned on mitigating the risk of change through architecture evaluation. By providing comprehensive answers to more than 100 typical questions and discussing more than 60 frequent mistakes and lessons learned, the book allows readers to not only learn how to conduct architecture evaluations and interpret its results, but also to become aware of risks such

as false conclusions, manipulating data, and unsound lines of argument. It equips readers to become confident in assessing quantitative measurement results and recognize when it is better to rely on qualitative expertise. The target readership includes both practitioners and researchers. By demonstrating its impact and providing clear guidelines, data, and examples, it encourages practitioners to conduct architecture evaluations. At the same time, it offers researchers insights into industrial architecture evaluations, which serve as the basis for guiding research in this area and will inspire future research directions.

Advances in Intelligent Systems and Computing II - Natalia Shakhovska 2017-11-20

This book reports on new theories and applications in the field of intelligent systems and computing. It covers computational and artificial intelligence methods, as well as advances in computer vision, current issues in big data and cloud computing, computation

linguistics, and cyber-physical systems. It also reports on data mining and knowledge extraction technologies, as well as central issues in intelligent information management. Written by active researchers, the respective chapters are based on papers presented at the International Conference on Computer Science and Information Technologies (CSIT 2017), held on September 5-8, 2017, in Lviv, Ukraine; and at two workshops accompanying the conference: one on inductive modeling, jointly organized by the Lviv Polytechnic National University and the National Academy of Science of Ukraine; and another on project management, which was jointly organized by the Lviv Polytechnic National University, the International Project Management Association, the Ukrainian Project Management Association, the Kazakhstan Project Management Association, and Nazarbayev University. Given its breadth of coverage, the book provides academics and professionals with extensive information and a

timely snapshot of the field of intelligent systems, and is sure to foster new discussions and collaborations among different groups.

Digital Methods in the Humanities - Silke Schwandt 2020-12-31

Digital Humanities is a transformational endeavor that not only changes the perception, storage, and interpretation of information but also of research processes and questions. It also prompts new ways of interdisciplinary communication between humanities scholars and computer scientists. This volume offers a unique perspective on digital methods for and in the humanities. It comprises case studies from various fields to illustrate the challenge of matching existing textual research practices and digital tools. Problems and solutions with and for training tools as well as the adjustment of research practices are presented and discussed with an interdisciplinary focus.

Software Product Quality Control - Stefan Wagner 2013-07-25

Quality is not a fixed or universal property of software; it depends on the context and goals of its stakeholders. Hence, when you want to develop a high-quality software system, the first step must be a clear and precise specification of quality. Yet even if you get it right and complete, you can be sure that it will become invalid over time. So the only solution is continuous quality control: the steady and explicit evaluation of a product's properties with respect to its updated quality goals. This book guides you in setting up and running continuous quality control in your environment. Starting with a general introduction on the notion of quality, it elaborates what the differences between process and product quality are and provides definitions for quality-related terms often used without the required level of precision. On this basis, the work then discusses quality models as the foundation of quality control, explaining how to plan desired product qualities and how to ensure they are delivered throughout the entire

lifecycle. Next it presents the main concepts and techniques of continuous quality control, discussing the quality control loop and its main techniques such as reviews or testing. In addition to sample scenarios in all chapters, the book is rounded out by a dedicated chapter highlighting several applications of different subsets of the presented quality control techniques in an industrial setting. The book is primarily intended for practitioners working in software engineering or quality assurance, who will benefit by learning how to improve their current processes, how to plan for quality, and how to apply state-of-the-art quality control techniques. Students and lecturers in computer science and specializing in software engineering will also profit from this book, which they can use in practice-oriented courses on software quality, software maintenance and quality assurance.

Information Management and Big Data - Juan Antonio Lossio-Ventura 2022

This book constitutes the refereed proceedings of the 8th International Conference on Information Management and Big Data, SIMBig 2021, held as a virtual event in December 2021. The 25 revised full papers and 2 revised short papers presented were carefully reviewed and selected from 67 submissions. The papers are organized in topical sections on data mining and applications; deep learning and applications; data-driven software engineering; health, NLP, and social media; image processing, machine learning, and semantic web.

Software Quality Assurance - Ivan Mistrik
2015-10-12

Software Quality Assurance in Large Scale and Complex Software-intensive Systems presents novel and high-quality research related approaches that relate the quality of software architecture to system requirements, system architecture and enterprise-architecture, or software testing. Modern software has become complex and adaptable due to the emergence of

globalization and new software technologies, devices and networks. These changes challenge both traditional software quality assurance techniques and software engineers to ensure software quality when building today (and tomorrow's) adaptive, context-sensitive, and highly diverse applications. This edited volume presents state of the art techniques, methodologies, tools, best practices and guidelines for software quality assurance and offers guidance for future software engineering research and practice. Each contributed chapter considers the practical application of the topic through case studies, experiments, empirical validation, or systematic comparisons with other approaches already in practice. Topics of interest include, but are not limited, to: quality attributes of system/software architectures; aligning enterprise, system, and software architecture from the point of view of total quality; design decisions and their influence on the quality of system/software architecture;

methods and processes for evaluating architecture quality; quality assessment of legacy systems and third party applications; lessons learned and empirical validation of theories and frameworks on architectural quality; empirical validation and testing for assessing architecture quality. Focused on quality assurance at all levels of software design and development Covers domain-specific

software quality assurance issues e.g. for cloud, mobile, security, context-sensitive, mash-up and autonomic systems Explains likely trade-offs from design decisions in the context of complex software system engineering and quality assurance Includes practical case studies of software quality assurance for complex, adaptive and context-critical systems