

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

Challenging Boundaries 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

Building an Effective Security Program for Distributed Energy Resources and Systems 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

Advances in Intelligent Systems and Computing II 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

Modeling and Prototyping New Smart Learning Management Systems 2016-02-26

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

150—JSTQB Foundation Level 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

Research Anthology on Usage and Development of Open Source Software 2023-03-10

this book is about software product lines spls designed and developed taking uml diagrams as the primary basis modeled according to a rigorous approach composed of an uml profile and a systematic process for variability management activities forming the stereotype based management of variability smarty approach the book consists of five parts part i provides essential concepts on spl in terms of the first development methodologies it also introduces variability concepts and discusses spl architectures finishing with the smarty approach part ii is focused on the design verification and validation of smarty spls and part iii concentrates on the spl architecture evolution based on iso iec metrics the system pla method optimization with the moa4pla method and feature interaction prevention next part iv presents smarty as a basis for spl development such as the m spl learning spl for mobile learning applications the plets spl for testing tools the plugspl plugin environment for supporting the spl life cycle the symples approach for designing embedded systems with sysml the smartyspem approach for software process lines spl and re engineering of class diagrams into an spl eventually part v promotes controlled experimentation in uml based spls presenting essential concepts on how to plan conduct and document experiments as well as showing several experiments carried out with smarty this book aims at lecturers graduate students and experienced practitioners lecturers might use the book for graduate level courses about spl fundamentals and tools students will learn about the spl engineering process variability management and mass customization and practitioners will see how to plan the transition from single product development to an spl based process how to document inherent variability in a given domain or how to apply controlled experiments to spls

Microsoft Net Architecting Applications for the Enterprise 2nd Edition Microsoft Press 2014

Microsoft Net Architecting Applications for the Enterprise 2nd Edition Microsoft Press 2014
CQRS Command Query Responsibility Segregation
Net

.NET 2014-07-31

this 10 volume compilation of authoritative research based articles contributed by thousands of researchers and experts from all over the world emphasized modern issues and the presentation of potential opportunities prospective solutions and future directions in the field of information science and technology provided by publisher

Encyclopedia of Information Science and Technology, Third Edition 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

Building Maintainable Software, C# Edition 2018-10-25

the european conference on e government has been running now for 18 years this event has been held in italy ireland belgium uk slovenia to mention a few of the countries who have hosted it this year we are refocusing the conference to look more broadly at the area of digital government the conference is generally attended by participants from more than 40 countries and attracts an interesting combination of academic scholars public sector workers and individuals who are engaged in various aspects of digital government research and application

ECDG 2018 18th European Conference on Digital Government 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

Software Quality Assurance 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

Book Series Increasing Productivity of Software Development, Part 2: Management Model, Cost Estimation and KPI Improvement 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

Pragmatic Evaluation of Software Architectures 2022-11-15

this book will provide an overview of the rehabilitation engineering field including key concepts that are required to provide a solid foundation about the discipline it will present these concepts through a mix of basic and applied knowledge from rehabilitation engineering research and practice it is written as an introductory text in order to provide access to the field by those without previous experience or background in the field these concepts will include those related to engineering and health that are necessary to understand the application of rehabilitation engineering to support human function

Rehabilitation Engineering 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

Cybersecurity Investments 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

Software Quality: The Complexity and Challenges of Software Engineering and Software Quality in the Cloud 2016-09-23

this book presents emerging trends in the evolution of service oriented and enterprise architectures new architectures and methods of both business and it are integrating services to support mobility systems internet of things ubiquitous computing collaborative and adaptive business processes big data and cloud ecosystems they inspire current and future digital strategies and create new opportunities for the digital transformation of next digital products and services services oriented architectures soa and enterprise architectures ea have emerged as a useful framework for developing interoperable large scale systems typically implementing various standards like services rest and microservices managing the adaptation and evolution of such systems presents a great challenge service oriented architecture enables flexibility through loose coupling both between the services themselves and between the it organizations that manage them enterprises evolve continuously by transforming and extending their services processes and information systems enterprise architectures provide a holistic blueprint to help define the structure and operation of an organization with the goal of determining how an organization can most effectively achieve its objectives the book proposes several approaches to address the challenges of the service oriented evolution of digital enterprise and software architectures

Emerging Trends in the Evolution of Service-Oriented and Enterprise Architectures

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