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The most comprehensive General, Organic, and Biochemistry book available, Introduction to General, Organic, and Biochemistry, 11th Edition continues its tradition of a solid development of problem-solving skills, numerous examples and practice problems, along with coverage of current applications. Written by an experienced author team, they skillfully anticipate areas of difficulty and pace the book accordingly. Readers will find the right mix of general chemistry compared to the discussions on organic and biochemistry. Introduction to General, Organic, and Biochemistry, 11th Edition has clear & logical explanations of chemical concepts and great depth of coverage as well as a clear, consistent writing style which provides great readability. An emphasis on Real-World aspects of chemistry makes the reader comfortable in seeing how the chemistry will apply to their career.

This book features a selection of articles from The 2019 International Conference on Information Technology & Systems (ICITS'19), held at the Universidad de Las Fuerzas Armadas, in Quito, Ecuador, on 6th to 8th February 2019. ICIST is a global forum for researchers and practitioners to present and discuss recent findings and innovations, current trends, professional experiences and challenges of modern information technology and systems research, together with their technological development and applications. The main topics covered are: information and knowledge management; organizational models and information systems; software and systems modeling; software systems, architectures, applications and tools; multimedia systems and applications; computer networks, mobility and pervasive systems; intelligent and decision support systems; big data analytics and applications; human-computer interaction; ethics, computers & security; health informatics; information technologies in education; cybersecurity and cyber-defense; electromagnetics, sensors and antennas for security.

2012 International Conference on Affective Computing and Intelligent Interaction (ICACII 2012) was the most comprehensive conference focused on the various aspects of advances in Affective Computing and Intelligent Interaction. The conference provided a rare opportunity to bring together worldwide academic researchers and practitioners for exchanging the latest developments and applications in this field such as Intelligent Computing, Affective Computing, Machine Learning, Business Intelligence and HCI. This volume is a collection of 119 papers selected from 410 submissions from universities and industries all over the world, based on their quality and relevancy to the conference. All of the papers have been peer-reviewed by selected experts.

This book constitutes the refereed thoroughly refereed post-workshop proceedings of the 18th International Conference on Web Engineering, ICWE 2018, held in Cáceres, Spain, in June 2018. The 18 revised full papers were selected from 40 submissions. The workshops complement the main conference and explore new trends on core topics of Web engineering and provide an open discussion space combining solid theory work with practical on-the-field experience. The workshop committee accepted five workshops for publication in this volume: First International Workshop on Maturity of Web Engineering Practices (MATWEP 2018), Second International Workshop on Engineering theWeb of Things (EnWoT 2018), Fourth International Workshop on Knowledge Discovery on the Web (KDWEB 2018), International Workshop on Engineering Open Data (WEOD 2018), First International Workshop on Knowledge Graphs on Travel and Tourism (TourismKG 2018).

This book constitutes the refereed proceedings of the 45th International Conference on Current Trends in Theory and Practice of Computer Science, SOFSEM 2019, held in Nový Smokovec, Slovakia, in January 2019. The 34 full papers presented together with 6 invited talks were carefully reviewed and selected from 92 submissions. They presented new research results in the theory and practice of computer science in the each sub-area of SOFSEM 2019: Foundations of theoretical Computer Science, foundations of data science and engineering, and foundations of software engineering.

Certifiable Software Applications 1: Main Processes is dedicated to the establishment of quality assurance and safety assurance. It establishes the context for achieving a certifiable software application. In it, the author covers recent developments such as the module, component and product line approach. Applicable standards are presented and security principles are described and discussed. Finally, the requirements for mastering quality and configuration are explained. In this book the reader will find the fundamental practices from the field and an introduction to the concept of software application. Presents the fundamental practices from the field Emphasizes the development of quality assurance and safety assurance Introduces the concept of software application Covers recent developments such as module, component, and the product line approach

Informatics and technology have become an intrinsic part of healthcare management in recent years; it is almost impossible to imagine a modern healthcare system without them. This book presents the proceedings of the 14th annual International Conference on Informatics, Management and Technology in Healthcare (ICIMTH), held in Athens, Greece, in July 2016. The conference treats the field of biomedical informatics in a very broad framework, and the 68 full papers included here examine the research and applications outcomes of informatics from cell to population, including a number of technologies such as imaging, sensors, mobile communications, biomedical equipment and management, as well as legal and societal issues related to the application of health informatics. The book is divided into sections: Biomedical Technology; Clinical Informatics; E-learning and Education; Formalisation of Knowledge, Ontologies, Clinical Guidelines and Standards of Healthcare; Health Informatics; Healthcare Management and Public Health; mHealth and Telemedicine; and Social Media and Health. Also included are two keynote speeches. Covering a wide spectrum of applications, the book will be of interest to all those working in the design, management and delivery of healthcare services whose work involves the development or use of biomedical informatics.

Information modeling and knowledge bases have become an important area of academic and industry research in the 21st century, addressing complexities of modeling that reach beyond the traditional borders of information systems and academic computer science research. This book presents 32 reviewed, selected and updated papers delivered at the 29th International Conference on Information Modeling and Knowledge Bases (EJC2019), held in Lappeenranta, Finland, from 3 to 7 June 2019. In addition, two papers based on the keynote presentations and one paper edited from the discussion of the panel session are included in the book. The conference provided a forum to exchange scientific results and experience, and attracted academics and practitioners working with information and knowledge. The papers cover a wide range of topics, ranging from knowledge discovery through conceptual and linguistic modeling, knowledge and information modeling and discovery, cross-cultural communication and social computing, environmental modeling and engineering, and multimedia data modeling and systems to complex scientific problem-solving. The conference presentation sessions: Learning and Linguistics; Systems and Processes; Data and Knowledge Representation; Models and Interface; Formalizations and Reasoning; Models and Modeling; Machine Learning; Models and Programming; Environment and Predictions; and Emotion Modeling and Social Networks reflect the main themes of the conference. The book also includes 2 extended publications of keynote addresses: 'Philosophical Foundations of Conceptual Modeling' and 'Sustainable Solid Waste Management using Life Cycle Modeling for Environmental Impact Assessment', as well as additional material covering the discussion and findings of the panel session. Providing an overview of current research in the field, the book will be of interest to all those working with information systems, information modeling and knowledge bases.

This book, Innovative Trends in Personalized Software Engineering and Information Systems – The Case of Intelligent and Adaptive E-learning Systems, studies the development of personalized and knowledge-based systems with the purpose of developing fully-automated adaptive software, mainly focusing on enhancing digital learning. The authors cover several integral phases of software engineering and their application in the effective implementation of sophisticated learning technology systems. Systems development and systems evaluation,

tailored to adaptive e-learning, are examined in depth. More specifically, intelligent and knowledge-based techniques, such as artificial neural networks, fuzzy logic, genetic algorithms, pattern recognition, learning analytics and data mining, as well as evaluation frameworks adapted to digital learning software are presented. This publication will be of interest to scientists from various disciplines, including computer science, artificial intelligence, education and psychology, and will help researchers working in computer science and engineering to build intelligent and adaptive learning technology systems by employing personalization techniques while following the basic concepts of software engineering and information systems. It will also serve as a valuable tool for junior and senior scientists, supporting their research activities in the field of personalized and knowledge-based software engineering, and instructors will be able to use the book as a guide to the effective design and development of intelligent systems in education.

Data processing, Computer software, Quality, Quality assurance, Computer programs, Software engineering techniques

Microsystems, smart textiles, telemedicine, smart implants and sensor-controlled medical devices have become important enablers for monitoring and treatment in both inpatient and outpatient care. Indeed, micro and nano technologies have tremendous potential for increasing access to care whilst managing healthcare costs. They are set to be at the heart of evolutionary and revolutionary changes in healthcare, and are crucial, not only for the future of medicine, but also for the improvement of health care and welfare processes today and tomorrow. This book presents the proceedings of the 2012 pHealth conference, held in Porto, Portugal, in June 2012. The pHealth conference has emerged as the leading international meeting on wearable micro and nano technologies for personalized medicine, attracting scientists from various disciplines, clinicians, as well as policy makers from the healthcare industry, hospital administration and allied professionals. The book includes keynotes, invited speeches and selected submitted contributions. The areas covered include: the pHealth approach, new approaches to diagnosis and therapy, monitoring special diseases, system architecture, design and implementation, wearable sensor systems, smartphone applications and ambient assisted living. Over the years, pHealth has given visibility to the tremendous potential of micro and nano technologies, not only for the future of medicine, but also for the improvement of healthcare processes today. This book will be of interest to all those involved with the provision of health and welfare services, and also to companies engaged in the development of micro and nano technologies.

This book contains the refereed proceedings of the 7th International Conference on Software Business, ICSOB 2016, held in Ljubljana, Slovenia, in June 2016. Software business refers to commercial activities in and around the software industry aimed at generating income from the delivery of software products and services. The theme of the event was "Software as a New Way of Providing Cutting-edge Solutions". The 10 full and 5 short papers for ICSOB were selected from 38 submissions. The papers span a wide range of issues related to contemporary software business, ranging from strategic aspects to operational challenges. The strong presence of software ecosystem papers confirms the importance of this topic and influence on software business. In addition, a short abstract of the key note by Peter Lick and Hans-Bernd Kittlaus is also included.

The International Organization for Standardization (ISO) is the first full-length study of the largest nongovernmental, global regulatory network whose scope and influence rivals that of the UN system. Much of the interest in the successes and failures of global governance focuses around high profile organisations such as the United Nations, World Bank and World Trade Organisation. This volume is one of few books that explore both the International Organization for Standardization's (ISO) role as a facilitator of essential economic infrastructure and the implication of ISO techniques for a much wider realm of global governance. Through detailing the initial rationale behind the ISO and a systematic discussion of how this low profile organization has developed, Murphy and Yates provide a comprehensive survey of the ISO as a powerful force on the way commerce is conducted in a changing and increasingly globalized world.

Welcome to the 5th International Conference on Open Source Systems! It is quite an achievement to reach the five-year mark – that's the sign of a successful enterprise. This annual conference is now being recognized as the primary event for the open source research community, attracting not only high-quality papers, but also building a community around a technical program, a collection of workshops, and (starting this year) a Doctoral Consortium. Reaching this milestone reflects the efforts of many people, including the conference founders, as well as the organizers and participants in the previous conferences. My task has been easy, and has been greatly aided by the hard work of Kevin Crowston and Cornelia Boldyreff, the Program Committee, as well as the Organizing Team led by Björn Lundell. All of us are also grateful to our attendees, especially in the difficult economic climate of 2009. We hope the participants found the conference valuable both for its technical content and for its personal networking opportunities. To me, it is interesting to look back over the past five years, not just at this conference, but at the development and acceptance of open source software. Since 2004, the business and commercial side of open source has grown enormously. At that time, there were only a handful of open source businesses, led by RedHat and its Linux distribution. Companies such as MySQL and JBoss were still quite small.

This open access book, published to mark the 15th anniversary of the International Software Quality Institute (iSQI), is intended to raise the profile of software testers and their profession. It gathers contributions by respected software testing experts in order to highlight the state of the art as well as future challenges and trends. In addition, it covers current and emerging technologies like test automation, DevOps, and artificial intelligence methodologies used for software testing, before taking a look into the future. The contributing authors answer questions like: "How is the profession of tester currently changing? What should testers be prepared for in the years to come, and what skills will the next generation need? What opportunities are available for further training today? What will testing look like in an agile world that is user-centered and fast-paced? What tasks will remain for testers once the most important processes are automated?" iSQI has been focused on the education and certification of software testers for fifteen years now, and in the process has contributed to improving the quality of software in many areas. The papers gathered here clearly reflect the numerous ways in which software quality assurance can play a critical role in various areas. Accordingly, the book will be of interest to both professional software testers and managers working in software testing or software quality assurance.

This book seeks to promote the structured, standardized and accurate use of software measurement at all levels of modern software development companies. To do so, it focuses on seven main aspects: sound scientific foundations, cost-efficiency, standardization, value-maximization, flexibility, combining organizational and technical aspects, and seamless technology integration. Further, it supports companies in their journey from manual reporting to automated decision support by combining academic research and industrial practice. When scientists and

engineers measure something, they tend to focus on two different things. Scientists focus on the ability of the measurement to quantify whatever is being measured; engineers, however, focus on finding the right qualities of measurement given the designed system (e.g. correctness), the system's quality of use (e.g. ease of use), and the efficiency of the measurement process. In this book, the authors argue that both focuses are necessary, and that the two are complementary. Thus, the book is organized as a gradual progression from theories of measurement (yes, you need theories to be successful!) to practical, organizational aspects of maintaining measurement systems (yes, you need the practical side to understand how to be successful). The authors of this book come from academia and industry, where they worked together for the past twelve years. They have worked with both small and large software development organizations, as researchers and as measurement engineers, measurement program leaders and even teachers. They wrote this book to help readers define, implement, deploy and maintain company-wide measurement programs, which consist of a set of measures, indicators and roles that are built around the concept of measurement systems. Based on their experiences introducing over 40,000 measurement systems at over a dozen companies, they share essential tips and tricks on how to do it right and how to avoid common pitfalls.

This proceedings book presents the latest research findings, and theoretical and practical perspectives on innovative methods and development techniques related to the emerging areas of Web computing, intelligent systems and Internet computing. The Web has become an important source of information, and techniques and methodologies that extract quality information are of paramount importance for many Web and Internet applications. Data mining and knowledge discovery play a key role in many of today's major Web applications, such as e-commerce and computer security. Moreover, Web services provide a new platform for enabling service-oriented systems. The emergence of large-scale distributed computing paradigms, such as cloud computing and mobile computing systems, has opened many opportunities for collaboration services, which are at the core of any information system. Artificial intelligence (AI) is an area of computer science that builds intelligent systems and algorithms that work and react like humans. AI techniques and computational intelligence are powerful tools for learning, adaptation, reasoning and planning, and they have the potential to become enabling technologies for future intelligent networks. Research in the field of intelligent systems, robotics, neuroscience, artificial intelligence and cognitive sciences is vital for the future development and innovation of Web and Internet applications.

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.

Software engineering requires specialized knowledge of a broad spectrum of topics, including the construction of software and the platforms, applications, and environments in which the software operates as well as an understanding of the people who build and use the software. Offering an authoritative perspective, the two volumes of the Encyclopedia of Software Engineering cover the entire multidisciplinary scope of this important field. More than 200 expert contributors and reviewers from industry and academia across 21 countries provide easy-to-read entries that cover software requirements, design, construction, testing, maintenance, configuration management, quality control, and software engineering management tools and methods. Editor Phillip A. Laplante uses the most universally recognized definition of the areas of relevance to software engineering, the Software Engineering Body of Knowledge (SWEBOK®), as a template for organizing the material. Also available in an electronic format, this encyclopedia supplies software engineering students, IT professionals, researchers, managers, and scholars with unrivaled coverage of the topics that encompass this ever-changing field. Also Available Online This Taylor & Francis encyclopedia is also available through online subscription, offering a variety of extra benefits for researchers, students, and librarians, including: Citation tracking and alerts Active reference linking Saved searches and marked lists HTML and PDF format options Contact Taylor and Francis for more information or to inquire about subscription options and print/online combination packages. US: (Tel) 1.888.318.2367; (E-mail) e-reference@taylorandfrancis.com International: (Tel) +44 (0) 20 7017 6062; (E-mail) online.sales@tandf.co.uk

This book constitutes the refereed proceedings of the 15th International Conference on Software Architecture, ECSA 2021, held in Sweden, in September 2021. Due to the COVID-19 pandemic, the conference was held virtually. For the Research Track, 11 full papers, presented together with 5 short papers, were carefully reviewed and selected from 58 submissions. The papers are organized in topical sections as follows: architectures for reconfigurable and self-adaptive systems; machine learning for software architecture; architectural knowledge, decisions, and rationale; architecting for quality attributes; architecture-centric source code analysis; and experiences and learnings from industrial case studies.

This book constitutes the proceedings of the 17th International Conference on Product-Focused Software Process Improvement, PROFES 2016, held in Trondheim, Norway, in November 2016. The 24 revised full papers presented together with 21 short papers, 1 keynote, 3 invited papers, 5 workshop papers, 2 doctoral symposium papers, and 6 tutorials were carefully reviewed and selected from 82 submissions. The papers are organized in topical sections on Early Phases in Software Engineering; Organizational Models; Architecture; Methods and Tools; Verification and Validation; Process Improvement; Speed and Agility in System Engineering; Requirements and Quality; Process and Repository Mining; Business Value and Benefits; Emerging Research Topics; and Future of Computing.

This book constitutes the proceedings of the 10th International Conference on Web Information Systems Engineering, WISE 2009, held in Poznan, Poland, in October 2009. The 33 revised full papers and 17 revised short papers presented together with two keynote talks were carefully reviewed and selected from around 144 submissions. The papers are organized in topical sections on web computing, industrial session, tagging, semantics, search, visualization, web services, trust and uncertainty, recommendation and quality of service, user interfaces, web understanding, exploiting structures information on the web, systems, data mining and querying, querying and workflow and architecture.

This book constitutes the refereed proceedings of the 4th International Conference on Technology Trends, CITT 2018, held in Babahoyo, Ecuador, in August 2018. The 53 revised full papers presented were carefully reviewed and selected from 204 submissions. The papers are organized in topical sections on communications; security and privacy; computer and software

engineering; computational intelligence; e-government and e-participation.

Over the past two decades, the role of business in global governance has become increasingly topical. Transnational business associations are progressively more visible in international policy debates and in intergovernmental institutions, and there is a heightened attention given to global policy-making in national and international business communities. This text examines and explains the multiple modes of engagement between business and global governance; it presents a variety of theoretical approaches which can be used to analyse them, along with empirical illustrations. Featuring a range of leading US and European scholars, it is divided into three parts that summarize different modes of engagement. Each section is illustrated by two or three studies that represent a distinct theoretical take on the issue with empirical illustrations. The book examines: Business as master and purpose of global governance Business as subject and opponent to global governance Business as partner and facilitator of global governance This book will be of interest to students and scholars of Business Studies, International Relations, International Politics and International Political Economy, as well as for practitioners – in the public and private sector.

This book constitutes the refereed proceedings of the 14th International Conference on Evaluation of Novel Approaches to Software Engineering, ENASE 2019, held in Heraklion, Crete, Greece, in May 2019. The 19 revised full papers presented were carefully reviewed and selected from 102 submissions. The papers included in this book contribute to the understanding of relevant trends of current research on novel approaches to software engineering for the development and maintenance of systems and applications, specifically with relation to: model-driven software engineering, requirements engineering, empirical software engineering, service-oriented software engineering, business process management and engineering, knowledge management and engineering, reverse software engineering, software process improvement, software change and configuration management, software metrics, software patterns and refactoring, application integration, software architecture, cloud computing, and formal methods.

This book covers ideas, methods, algorithms, and tools for the in-depth study of the performance and reliability of dependable fault-tolerant systems. The chapters identify the current challenges that designers and practitioners must confront to ensure the reliability, availability, and performance of systems, with special focus on their dynamic behaviors and dependencies. Topics include network calculus, workload and scheduling; simulation, sensitivity analysis and applications; queuing networks analysis; clouds, federations and big data; and tools. This collection of recent research exposes system researchers, performance analysts, and practitioners to a spectrum of issues so that they can address these challenges in their work.

This book constitutes the refereed proceedings of the 13th International Conference on the Quality of Information and Communications Technology, QUATIC 2020, held in Faro, Portugal*, in September 2020. The 27 full papers and 12 short papers were carefully reviewed and selected from 81 submissions. The papers are organized in topical sections: quality aspects in machine learning, AI and data analytics; evidence-based software quality engineering; human and artificial intelligences for software evolution; process modeling, improvement and assessment; software quality education and training; quality aspects in quantum computing; safety, security and privacy; ICT verification and validation; RE, MDD and agile. *The conference was held virtually due to the COVID-19 pandemic.

This book constitutes revised selected papers from the International Workshop on Data Quality and Trust in Big Data, QUAT 2018, which was held in conjunction with the International Conference on Web Information Systems Engineering, WISE 2018, in Dubai, UAE, in November 2018. The 9 papers presented in this volume were carefully reviewed and selected from 15 submissions. They deal with novel ideas and solutions related to the problems of exploring, assessing, monitoring, improving, and maintaining the quality of data and trust for Big Data. This book presents a systematic model-based approach for software architecture according to three complementary viewpoints: structure, behavior, and execution. It covers a unified modeling approach and consolidates theory and practice with well-established learning outcomes. The authors cover the fundamentals of software architecture description and presents SysADL, a specialization of the OMG Standard Systems Modeling Language (SysML) with the aim of bringing together the expressive power of an Architecture Description Language (ADL) with a standard notation, widely accepted by industry and compliant with the ISO/IEC/IEEE 42010 Standard on Architecture Description in Systems and Software Engineering. The book is clearly structured in four parts: The first part focuses on the fundamentals of software architecture, exploring the concepts and constructs for modeling software architecture from differing viewpoints. Each chapter covers a specific viewpoint illustrated with examples of a real system. The second part focuses on how to design software architecture for achieving quality attributes. Each chapter covers a specific quality attribute and presents well-defined approaches to achieve it. Each architectural case study is illustrated with different examples drawn from a real-life system. The third part shows readers how to apply software architecture style to design architectures that meet the quality attributes. Each chapter covers a specific architectural style and gives insights on how to describe substyles. Each style is illustrated by variants and examples of a real-life system. The fourth part presents how to textually represent software architecture models to complement visual notation, including different examples. Software Architecture in Action is designed for teaching the required modeling techniques to both undergraduate and graduate students, giving them the practical techniques and tools needed to design the architecture of software-intensive systems. Similarly, this book will appeal to software development architects, designers, programmers and project managers too.

AS/NZS ISO/IEC 250002007 Software Engineering - Software Product Quality Requirements and Evaluation (SQuaRE) - Guide to SQuaRE Via Standards Australia OnlineSoftware Quality AssuranceJohn Wiley & Sons

This book contains accepted papers presented at CISIS 2020 held in the beautiful and historic city of Burgos (Spain), in September 2020. The aim of the CISIS 2020 conference is to offer a meeting opportunity for academic and industry-related researchers belonging to the various, vast communities of computational intelligence, information security, and data mining. The need for intelligent, flexible behaviour by large, complex systems, especially in mission-critical domains, is intended to be the catalyst and the aggregation stimulus for the overall event. After a thorough peer-review process, the CISIS 2020 International Program Committee selected 43 papers which are published in these conference proceedings achieving an acceptance rate of 28%. Due to the COVID-19 outbreak, the CISIS 2020 edition was blended, combining on-site and on-line participation. In this relevant edition, a special emphasis was put on the organization of five special sessions related to relevant topics as Fake News Detection and Prevention, Mathematical Methods and Models in Cybersecurity, Measurements for a Dynamic Cyber-Risk

Assessment, Cybersecurity in a Hybrid Quantum World, Anomaly/Intrusion Detection, and From the least to the least: cryptographic and data analytics solutions to fulfil least minimum privilege and endorse least minimum effort in information systems. The selection of papers was extremely rigorous in order to maintain the high quality of the conference and we would like to thank the members of the Program Committees for their hard work in the reviewing process. This is a crucial process to the creation of a high standard conference, and the CISIS conference would not exist without their help.

This book constitutes the thoroughly refereed post-conference proceedings of the workshops held at the 10th International Conference on Web Engineering, ICWE 2010, in Vienna, Austria, in July 2010. The 60 revised full papers presented were carefully reviewed and selected from over 100 submissions made to 9 international workshops and held in cooperation with the ICWE 2010 main conference. Those 9 workshops were selected from 16 proposals and encompassed: MDWE 2010, the 6th model-driven Web engineering workshop; QWE 2010, the first international workshop on quality in Web engineering; SWIM 2010, the second international workshop on semantic Web information management; SWEng 2010, the first international workshop on service Web engineering; ESW 2010, the first workshop on engineering soa and the Web; ComposableWeb 2010, the second international workshop on lightweight composition on the Web; EC 2010, the first international workshop on enterprise crowdsourcing; TouchTheWeb 2010, the first international workshop on Web-enabled objects; and WEBTOUR 2010, the first international workshop on Web engineering and tourism.

This book constitutes the refereed proceedings of the 21st IFIP WG 5.5 Working Conference on Virtual Enterprises, PRO-VE 2020, held in Valencia, Spain, in November 2020. The conference was held virtually. The 53 full papers were carefully reviewed and selected from 135 submissions. They provide a comprehensive overview of major challenges and recent advances in various domains related to the digital transformation and collaborative networks and their applications with a strong focus on the following areas related to the main theme of the conference: collaborative business ecosystems; collaborative business models; collaboration platform; data and knowledge services; blockchain and knowledge graphs; maintenance, compliance and liability; digital transformation; skills for organizations of the future; collaboration in open innovation; collaboration in supply chain; simulation and analysis in collaborative systems; product and service systems; collaboration impacts; boosting sustainability through collaboration in Agri-food 4.0; digital innovation hubs for digitalizing European industry; and collaborative networks for health and wellness data management.

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.

This book gathers papers presented at the 22nd International Conference on Interactive Collaborative Learning (ICL2019), which was held in Bangkok, Thailand, from 25 to 27 September 2019. Covering various fields of e-learning and distance learning, course and curriculum development, knowledge management and learning, real-world learning experiences, evaluation and outcomes assessment, computer-aided language learning, vocational education development and technical teacher training, the contributions focus on innovative ways in which higher education can respond to the real-world challenges related to the current transformation in the development of education. Since it was established, in 1998, the ICL conference has been devoted to new approaches in learning with a focus on collaborative learning. Today, it is a forum for sharing trends and research findings as well as presenting practical experiences in learning and engineering pedagogy. The book appeals to policymakers, academics, educators, researchers in pedagogy and learning theory, school teachers, and other professionals in the learning industry, and further and continuing education.

This book constitutes the proceedings of the 22nd European Conference on Advances in Databases and Information Systems, ADBIS 2018, held in Budapest, Hungary, in September 2018. The 17 regular papers presented together with two invited papers were carefully selected and reviewed from numerous submissions. The papers are organized in topical sections such as information extraction and integration; data mining and knowledge discovery; indexing, query processing and optimization; data quality and data cleansing; distributed data platforms, including cloud data systems, key-value stores, and big data systems; and streaming data analysis; web, XML and semi-structured databases.

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.

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