



### **Advanced Information Systems Engineering Workshops Aug 22**

2021 This book constitutes the thoroughly refereed proceedings of eight international workshops held in Gdańsk, Poland, in conjunction with the 24th International Conference on Advanced Information Systems Engineering, CAiSE 2012, in June 2012. The 35 full and 17 short revised papers were carefully selected from 104 submissions. The eight workshops were Agility of Enterprise Systems (AgilES), Business/IT Alignment and Interoperability (BUSITAL), Enterprise and Organizational Modeling and Simulation (EOMAS), Governance, Risk and Compliance (GRCIS), Human-Centric Process-Aware Information Systems (HC-PAIS), System and Software Architectures (IWSSA), Ontology, Models, Conceptualization and Epistemology in Social, Artificial and Natural Systems (ONTOSE), and Information Systems Security Engineering (WISSE).

### *Advanced Information Systems Engineering Workshops Aug 02 2022*

This book constitutes the thoroughly refereed proceedings of the international workshops associated with the 33rd International Conference on Advanced Information Systems Engineering, CAiSE 2021, which was held during June 28-July 2, 2021. The conference was planned to take place in Melbourne, Australia, but changed to an online format due to the COVID-19 pandemic. The workshops included in this volume are: · BC4IS: 1st International Workshop on Blockchain for Information Systems · EMOBI : 3rd International Workshop on Ethics and Morality in Business Informatics · KET4DF : 3rd International Workshop on Key Enabling Technology for Digital Factories · MOBA: 1st International Workshop on Model-driven Organizational and Business Agility · NeGIS: 2nd International Workshop on Next Generation Information Systems They focus on topics and trends ranging from blockchain technologies to digital factories, ethics, and business agility to the next generation of information systems. The 14 full papers and 1 short paper presented in this volume were carefully reviewed and selected from 33 submissions.

### **Proceedings of Seventh International Congress on Information and Communication Technology Jun 27 2019**

This book gathers

selected high-quality research papers presented at the Seventh International Congress on Information and Communication Technology, held at Brunel University, London, on February 21–24, 2022. It discusses emerging topics pertaining to information and communication technology (ICT) for managerial applications, e-governance, e-agriculture, e-education and computing technologies, the Internet of Things (IoT) and e-mining. Written by respected experts and researchers working on ICT, the book offers a valuable asset for young researchers involved in advanced studies. The work is presented in four volumes.

### *Advanced Information Systems Engineering Workshops May 19 2021*

This book constitutes the thoroughly refereed proceedings of seven international workshops held in Stockholm, Sweden, in conjunction with the 27th International Conference on Advanced Information Systems Engineering, CAiSE 2015, in June 2015. The 38 full and nine short papers were carefully selected from 107 submissions. The workshops were the Second International Workshop on Advances in Services Design based on the Notion of Capability (ASDENCA), the Third International Workshop on Cognitive Aspects of Information Systems Engineering (COGNISE), the First International Workshop on Digital Business Innovation and the Future Enterprise Information Systems Engineering (DiFenSE), the First International Workshop on Enterprise Modeling (EM), the First Workshop on the Role of Real-World Objects in Business Process Management Systems (RW-BPMS), the 10th International Workshop on Trends in Enterprise Architecture Research (TEAR), and the 5th International Workshop on Information Systems Security Engineering (WISSE).

### Advanced Information Systems Engineering Workshops Feb 25 2022

This book constitutes the thoroughly refereed proceedings of ten international workshops held in London, UK, in conjunction with the 23rd International Conference on Advanced Information Systems Engineering, CAiSE 2011, in June 2011. The 59 revised papers were carefully selected from 139 submissions. The ten workshops included Business/IT Alignment and Interoperability (BUSITAL), Conceptualization of Modelling Methods (CMM), Domain Specific Engineering (DsE@CAiSE),

Governance, Risk and Compliance (GRCIS), Integration of IS Engineering Tools (INISSET), System and Software Architectures (IWSSA), Ontology-Driven Information Systems Engineering (ODISE), Ontology, Models, Conceptualization and Epistemology in Social, Artificial and Natural Systems (ONTOSE), Semantic Search (SSW), and Information Systems Security Engineering (WISSE).

**Advanced Information Systems Engineering Workshops** Nov 24 2021 This book constitutes the thoroughly refereed proceedings of ten international workshops held in London, UK, in conjunction with the 23rd International Conference on Advanced Information Systems Engineering, CAiSE 2011, in June 2011. The 59 revised papers were carefully selected from 139 submissions. The ten workshops included Business/IT Alignment and Interoperability (BUSITAL), Conceptualization of Modelling Methods (CMM), Domain Specific Engineering (DsE@CAiSE), Governance, Risk and Compliance (GRCIS), Integration of IS Engineering Tools (INISSET), System and Software Architectures (IWSSA), Ontology-Driven Information Systems Engineering (ODISE), Ontology, Models, Conceptualization and Epistemology in Social, Artificial and Natural Systems (ONTOSE), Semantic Search (SSW), and Information Systems Security Engineering (WISSE).

**Advanced Information Systems Engineering** Jan 15 2021 The explosive growth of the Internet and the Web have created an ever-growing demand for information systems, and ever-growing challenges for Information Systems Engineering. The series of Conferences on Advanced Information Systems Engineering (CAiSE) was launched in Scandinavia by Janis Bubenko and Arne Solvberg in 1989, became an important European conference, and was held annually in major European sites throughout the 1990s. Now, in its 14th year, CAiSE was held for the first time outside Europe, showcasing international research on information systems and their engineering. Not surprisingly, this year the conference enjoyed unprecedented attention. In total, the conference received 173 paper submissions, the highest number ever for a CAiSE conference. Of those, 42 were accepted as regular papers and

26 as short (poster) papers. In addition, the conference received 12 proposals for workshops of which 8 were approved, while 4 tutorials were selected from 15 submissions. The technical program was put together by an international committee of 81 experts. In total, 505 reviews were submitted, with every member of the committee contributing. Decisions on all submissions were reached at a program committee meeting in Toronto on January 26-27, 2002. Workshop and tutorial proposals were handled separately by committees chaired by Patrick Martin (workshops), and Jarek Gryz and Richard Paige (tutorials). We wish to extend a great "THANK YOU!" to all members of the program and organizing committees for their volunteer contributions of time and expertise. The fact that so many busy (and famous!) people took the trouble to help us with the organization of this conference and the formation of its technical program speaks well for the future of CAiSE and the field of Information Systems Engineering.

**Advanced Information Systems Engineering Workshops** Nov 05 2022 This book constitutes the thoroughly refereed proceedings of the international workshops associated with the 33rd International Conference on Advanced Information Systems Engineering, CAiSE 2021, which was held during June 28-July 2, 2021. The conference was planned to take place in Melbourne, Australia, but changed to an online format due to the COVID-19 pandemic. The workshops included in this volume are:

- BC4IS: 1st International Workshop on Blockchain for Information Systems
- EMOBI : 3rd International Workshop on Ethics and Morality in Business Informatics
- KET4DF : 3rd International Workshop on Key Enabling Technology for Digital Factories
- MOBA: 1st International Workshop on Model-driven Organizational and Business Agility
- NeGIS: 2nd International Workshop on Next Generation Information Systems

They focus on topics and trends ranging from blockchain technologies to digital factories, ethics, and business agility to the next generation of information systems. The 14 full papers and 1 short paper presented in this volume were carefully reviewed and selected from 33 submissions.

Business Information Systems and Technology 4.0 Aug 10 2020 This

book discusses digitalization trends and their concrete applications in business and societal contexts. It summarizes new findings from research, teaching and management activities comprising digital transformation, e-business, the representation of knowledge, human-computer interaction and business optimization. The trends discussed include artificial intelligence, virtual reality, robotics, blockchain, and many more. Professors and researchers who conduct research and teach at the interface between academia and business present the latest advances in their field. The book adopts the philosophy of applied sciences and combines both rigorous research and practical applications. As such, it addresses the needs of both professors and researchers, who are constantly seeking inspiration, and of managers seeking to tap the potential of the latest trends to take their business to the next level. Readers will find answers to pressing questions that arise in their daily work.

**Advanced Information Systems Engineering Workshops** Oct 04 2022 This book constitutes the thoroughly refereed proceedings of six international workshops held in Tallinn, Estonia, in conjunction with the 30th International Conference on Advanced Information Systems Engineering, CAiSE 2018, in June 2018. These workshops were: - The 5th Workshop on Advances in Services DEsign based on the Notion of Capability (ASDENCA) - The 1st Workshop on Business Data Analytics: Techniques and Applications (BDA) - The 1st Workshop on Blockchains for Inter-Organizational Collaboration (BIOC) - The 6th Workshop on Cognitive Aspects of Information Systems Engineering (COGNISE) - The 2nd Workshop on Enterprise Modeling - The 1st Workshop on Flexible Advanced Information Systems (FAiSE) Two more workshops decided to produce their own, independent proceedings. The 22 full papers presented here were carefully reviewed and selected from a total of 49 submissions.

**Biometric Authentication in Online Learning Environments** Jan 03 2020 Student assessment in online learning is submitted remotely without any face-to-face interaction, and therefore, student authentication is widely seen as one of the major challenges in online

examination. Authentication is the process of determining whether someone or something is, in fact, who or what it is declared to be. As the dependence upon computers and computer networks grows, especially within education, the need for authentication has increased. Biometric Authentication in Online Learning Environments provides innovative insights into biometrics as a strategy to mitigate risk and provide authentication, while introducing a framework that provides security to improve e-learning and on-line examination by utilizing biometric-based authentication techniques. This book examines e-learning, security, threats in online exams, security considerations, and biometric technologies, and is designed for IT professionals, higher education administrators, professors, researchers, business professionals, academicians, and libraries seeking topics centered on biometrics as an authentication strategy within educational environments.

**Advanced Information Systems Engineering** May 07 2020 This book constitutes the refereed proceedings of the 29th International Conference on Advanced Information Systems Engineering, CAiSE 2017, held in Essen, Germany, in June 2017. The 37 papers presented together with 3 keynote papers in this volume were carefully reviewed and selected from 175 submissions. The papers are organized in topical sections on information systems architecture; business process alignment; user knowledge discovery; business process performance; big data exploration; process variability management; information systems transformation and evolution; business process modeling readability; business process adaptation; data mining; process discovery; business process modeling notation.

Advanced Information Systems Engineering Workshops Mar 29 2022 This book constitutes the thoroughly refereed proceedings of three international workshops held in Rome, Italy, in June 2019, associated with the 31st International Conference on Advanced Information Systems Engineering, CAiSE 2019. These workshops were: COGNISE, The 7th International Workshop on Cognitive Aspects of Information Systems Engineering KET4DF, First International Workshop on Key Enabling Technologies for Digital Factories BIOC&FAiSE, Joint Workshop on

Blockchains for Inter-Organizational Collaboration and Flexible Advanced Information Systems The total of 19 papers presented in this volume were carefully reviewed and selected from 39 submissions.

**Proceedings on 25th International Joint Conference on Industrial Engineering and Operations Management - IJCIEOM Jun 07 2020**

This book presents the conference proceedings of the 25th edition of the International Joint Conference on Industrial Engineering and Operations Management. The conference is organized by 6 institutions (from different countries and continents) that gather a large number of members in the field of operational management, industrial engineering and engineering management. This edition of the conference had the title: THE NEXT GENERATION OF PRODUCTION AND SERVICE SYSTEMS in order to emphasize unpredictable and very changeable future. This conference is aimed to enhance connection between academia and industry and to gather researchers and practitioners specializing in operation management, industrial engineering, engineering management and other related disciplines from around the world.

Advanced Information Systems Engineering Workshops Jan 27 2022 This book constitutes the thoroughly refereed proceedings of eight international workshops held in Gdańsk, Poland, in conjunction with the 24th International Conference on Advanced Information Systems Engineering, CAiSE 2012, in June 2012. The 35 full and 17 short revised papers were carefully selected from 104 submissions. The eight workshops were Agility of Enterprise Systems (AgilES), Business/IT Alignment and Interoperability (BUSITAL), Enterprise and Organizational Modeling and Simulation (EOMAS), Governance, Risk and Compliance (GRCIS), Human-Centric Process-Aware Information Systems (HC-PAIS), System and Software Architectures (IWSSA), Ontology, Models, Conceptualization and Epistemology in Social, Artificial and Natural Systems (ONTOSE), and Information Systems Security Engineering (WISSE).

Artificial Intelligence and Industrial Applications Jul 29 2019 This book gathers the refereed proceedings of the Artificial Intelligence and

Industrial Applications (A2IA'2020), the first installment of an annual international conference organized by the ENSAM-Meknes at Moulay Ismail University, Morocco. The 30 papers presented here were carefully reviewed and selected from 141 submissions by an international scientific committee. They address various aspects of artificial intelligence such as smart manufacturing, smart maintenance, smart supply chain management, supervised learning, unsupervised learning, reinforcement learning, graph-based and semi-supervised learning, neural networks, deep learning, planning and optimization, and other AI applications. The book is intended for AI experts, offering them a valuable overview of the status quo and a global outlook for the future, with many new and innovative ideas and recent important developments in AI applications, both of a foundational and practical nature. It will also appeal to non-experts who are curious about this timely and important subject.

**Trends and Applications in Software Engineering** Jul 09 2020 This book includes a selection of papers from the 2017 International Conference on Software Process Improvement (CIMPS'17), presenting trends and applications in software engineering. Held from 18th to 20th October 2017 in Zacatecas, Mexico, the conference provided a global forum for researchers and practitioners to present and discuss the latest innovations, trends, results, experiences and concerns in various areas of software engineering, including but not limited to software processes, security in information and communication technology, and big data. The main topics covered are organizational models, standards and methodologies, software process improvement, knowledge management, software systems, applications and tools, information and communication technologies and processes in non-software domains (mining, automotive, aerospace, business, health care, manufacturing, etc.) with a demonstrated relationship to software engineering challenges.

Advanced Information Systems Engineering Workshops Mar 17 2021 This book constitutes the thoroughly refereed proceedings of the international workshops associated with the 32nd International Conference on Advanced Information Systems Engineering, CAiSE 2020,

which was planned to take place in Grenoble, France, during June 8-12, 2020. Due to the Coronavirus pandemic the conference was held virtually. The workshops included in this book are: KET4DF, The Second International Workshop on Key Enabling Technologies for Digital Factories ISESL, The First International Workshop on Information Systems Engineering for Smarter Life The total of 8 full and 3 short papers presented in this volume were carefully reviewed and selected from 20 submissions. The book also contains one invited talk.

Advanced Information Systems Engineering Workshops May 31 2022

This book constitutes the thoroughly refereed proceedings of the international workshops associated with the 32nd International Conference on Advanced Information Systems Engineering, CAiSE 2020, which was planned to take place in Grenoble, France, during June 8-12, 2020. Due to the Coronavirus pandemic the conference was held virtually. The workshops included in this book are: KET4DF, The Second International Workshop on Key Enabling Technologies for Digital Factories ISESL, The First International Workshop on Information Systems Engineering for Smarter Life The total of 8 full and 3 short papers presented in this volume were carefully reviewed and selected from 20 submissions. The book also contains one invited talk.

*Advanced Information Systems Engineering Workshops* Sep 22 2021 This book constitutes the thoroughly refereed proceedings of three international workshops held in Rome, Italy, in June 2019, associated with the 31st International Conference on Advanced Information Systems Engineering, CAiSE 2019. These workshops were: COGNISE, The 7th International Workshop on Cognitive Aspects of Information Systems Engineering KET4DF, First International Workshop on Key Enabling Technologies for Digital Factories BIOC&FAISE, Joint Workshop on Blockchains for Inter-Organizational Collaboration and Flexible Advanced Information Systems The total of 19 papers presented in this volume were carefully reviewed and selected from 39 submissions.

*Advanced Information Systems Engineering Workshops* Apr 17 2021 This book constitutes the thoroughly refereed proceedings of five international workshops held in Ljubljana, Slovenia, in conjunction with

the 28th International Conference on Advanced Information Systems Engineering, CAiSE 2016, in June 2016. The 16 full and 9 short papers were carefully selected from 51 submissions. The associated workshops were the Third International Workshop on Advances in Services Design based on the Notion of Capabiliy (ASDENCA) co-arranged with the First International Workshop on Business Model Dynamics and Information Systems Engineering (BumDISE), the Fourth International Workshop on Cognitive Aspects of Information Systems Engineering (COGNISE), the First International Workshop on Energy-awareness and Big Data Management in Information Systems (EnBIS), the Second International Workshop on Enterprise Modeling (EM), and the Sixth International Workshop on Information Systems Security Engineering (WISSE).

**Smart and Sustainable Collaborative Networks 4.0** Feb 02 2020 This book constitutes the refereed proceedings of the 22nd IFIP WG 5.5 Working Conference on Virtual Enterprises, PRO-VE 2021, held in Saint-Étienne, and virtually in November 2021. The 70 papers (15 full and 55 short) presented with 5 industrial workshop papers were carefully reviewed and selected from 189 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: sustainable collaborative networks; sustainability via digitalization; analysis and assessment of business ecosystems; human factors in collaboration 4.0; maintenance and life-cycle management; policies and new digital services; safety and collaboration management; simulation and optimization; complex collaborative systems and ontologies; value co-creation in digitally enabled ecosystems; digitalization strategy in collaborative enterprises' networks; pathways and tools for DIHs; socio-technical perspectives on smart product-service systems; knowledge transfer and accelerated innovation in FoF; interoperability of IoT and CPS for industrial CNs; sentient immersive response network; digital tools and applications for collaborative healthcare; collaborative networks and open innovation in education 4.0; collaborative learning

networks with industry and academia; and industrial workshop.

**Advanced Information Systems Engineering Workshops** Apr 29

2022 This book constitutes the thoroughly refereed proceedings of eight international workshops held in Valencia, Spain, in conjunction with the 25th International Conference on Advanced Information Systems Engineering, CAiSE 2013, in June 2013. The 36 full and 12 short papers have undertaken a high-quality and selective acceptance policy, resulting in acceptance rates of up to 50% for full research papers. The eight workshops were Approaches for Enterprise Engineering Research (AppEER), International Workshop on BUSiness/IT ALignment and Interoperability (BUSITAL), International Workshop on Cognitive Aspects of Information Systems Engineering (COGNISE), Workshop on Human-Centric Information Systems (HC-IS), Next Generation Enterprise and Business Innovation Systems (NGEBIS), International Workshop on Ontologies and Conceptual Modeling (OntoCom), International Workshop on Variability Support in Information Systems (VarIS), International Workshop on Information Systems Security Engineering (WISSE).

Advanced Information Systems Engineering Nov 12 2020 This book constitutes the refereed proceedings of the 23rd International Conference on Advanced Information Systems Engineering, CAiSE 2011, held in London, UK, in June 2011. The 42 revised full papers and 5 revised short papers presented were carefully reviewed and selected from 320 submissions. In addition the book contains the abstracts of 2 keynote speeches. The contributions are organized in topical sections on requirements; adaptation and evolution; model transformation; conceptual design; domain specific languages; case studies and experiences; mining and matching; business process modelling; validation and quality; and service and management.

*Advanced Information Systems Engineering Workshops* Jul 01 2022 This book constitutes the thoroughly refereed proceedings of the international workshops associated with the 34th International Conference on Advanced Information Systems Engineering, CAiSE 2022, which was held in Leuven, Belgium, during June 6-10, 2022. The workshops included in this volume are:

Blockchain for Information Systems · ISESL: Second International Workshop on Information Systems Engineering for Smarter Life · KET4DF: 4th International Workshop on Key Enabling Technology for Digital Factories They reflect a broad range of topics and trends ranging from blockchain technologies via digital factories, ethics, and ontologies, to the agile methods for business and information systems. The 11 full papers and 1 short paper presented in this book were carefully reviewed and selected from 23 submissions.

**Advanced Information Systems Engineering Workshops** Sep 03 2022 This book constitutes the thoroughly refereed proceedings of three international workshops held in Essen, Germany, in conjunction with the 29th International Conference on Advanced Information Systems Engineering, CAiSE 2017, in June 2017. The 11 full papers presented were carefully reviewed and selected from 27 submissions. The workshops were the 4th International Workshop on Advances in Services Design Based on the Notion of Capability (ASDENCA); the 5th International Workshop on Cognitive Aspects of Information Systems Engineering (COGNISE); and the First International Workshop on Teaching for Smart Information Systems – Smart Information Systems for Teaching (T4SIS4T), which took place as a dedicated session under the umbrella of the COGNISE workshop.

*ECRM 2017 16th European Conference on Research Methods in Business and Management* Aug 29 2019

*Advanced Information Systems Engineering* Feb 13 2021 This book constitutes the proceedings of the 33rd International Conference on Advanced Information Systems Engineering, CAiSE 2021, which was held online during June 28-July 2, 2021. The conference was planned to take place in Melbourne, Australia, and changed to an online format due to the COVID-19 pandemic. The papers included in these proceedings focus on intelligent information systems and deal with novel approaches to IS engineering; models, methods and techniques in IS engineering; architectures and platforms for IS engineering; and domain specific and multi-aspect in IS engineering.

**Complex Data Warehousing and Knowledge Discovery for**

**Advanced Retrieval Development: Innovative Methods and Applications**

Oct 31 2019 Recently, researchers have focused on challenging problems facing the development of data warehousing, knowledge discovery, and data mining applications.

**Advanced Information Systems Engineering Workshops**

Oct 24 2021 This book constitutes the thoroughly refereed proceedings of eight international workshops held in Valencia, Spain, in conjunction with the 25th International Conference on Advanced Information Systems Engineering, CAiSE 2013, in June 2013. The 36 full and 12 short papers have undertaken a high-quality and selective acceptance policy, resulting in acceptance rates of up to 50% for full research papers. The eight workshops were Approaches for Enterprise Engineering Research (AppEER), International Workshop on BUSiness/IT ALignment and Interoperability (BUSITAL), International Workshop on Cognitive Aspects of Information Systems Engineering (COGNISE), Workshop on Human-Centric Information Systems (HC-IS), Next Generation Enterprise and Business Innovation Systems (NGEBIS), International Workshop on Ontologies and Conceptual Modeling (OntoCom), International Workshop on Variability Support in Information Systems (VarIS), International Workshop on Information Systems Security Engineering (WISSE).

**Practical Creativity and Innovation in Systems Engineering**

Apr 05 2020 A guide to systems engineering that highlights creativity and innovation in order to foster great ideas and carry them out Practical Creativity and Innovation in Systems Engineering exposes engineers to a broad set of creative methods they can adopt in their daily practices. In addition, this book guides engineers to become entrepreneurs within traditional engineering companies, promoting creative and innovative culture around them. The author describes basic systems engineering concepts and includes an abbreviated summary of Standard 15288 systems' life cycle processes. He then provides an extensive collection of practical creative methods which are linked to the various systems' life cycle processes. Next, the author discusses obstacles to innovation and, in particular, how engineers can push creative ideas through layers of reactionary bureaucracy within non-innovative organizations. Finally, the

author provides a comprehensive description of an exemplary creative and innovative case study recently completed. The book is filled with illustrative examples and offers effective guidelines that can enhance individual engineers' creative prowess as well as be used to create an organizational culture where creativity and innovation flourishes. This important book: Offers typical systems engineering processes that can be accomplished in creative ways throughout the development and post-development portions of a system's lifetime. Includes a large collection of practical creative methods applicable to engineering and other technological domains Includes innovation advice needed to transform creative ideas into new products, services, businesses and marketing processes Contains references and notes for further reading in every section Written for systems engineering practitioners, graduate school students and faculty members of systems, electrical, aerospace, mechanical and industrial engineering schools, Practical Creativity and Innovation in Systems Engineering offers a useful guide for creating a culture that promotes innovation.

Advanced Information Systems Engineering Workshops Jul 21 2021 This book constitutes the thoroughly refereed proceedings of three international workshops held in Essen, Germany, in conjunction with the 29th International Conference on Advanced Information Systems Engineering, CAiSE 2017, in June 2017. The 11 full papers presented were carefully reviewed and selected from 27 submissions. The workshops were the 4th International Workshop on Advances in Services Design Based on the Notion of Capability (ASDENCA); the 5th International Workshop on Cognitive Aspects of Information Systems Engineering (COGNISE); and the First International Workshop on Teaching for Smart Information Systems - Smart Information Systems for Teaching (T4SIS4T), which took place as a dedicated session under the umbrella of the COGNISE workshop.

*Bridging the Gap between Requirements Engineering and Software Architecture* Dec 14 2020 This book systematically identifies the lack of methodological support for development of requirements and software architecture in the state-of-the-art. To overcome this deficiency, the



QuaDRA framework is proposed as a problem-oriented approach. It provides an instantiation of the Twin Peaks model for supporting the intertwining relationship of requirements and software architecture. QuaDRA includes several structured methods which guide software engineers in quality- and pattern-based co-development of requirements and early design alternatives in an iterative and concurrent manner.

**Requirements Engineering: Foundation for Software Quality** Mar 05 2020 This book constitutes the proceedings of the 25th International Working Conference on Requirements Engineering - Foundation for Software Quality, REFSQ 2019, held in Essen, Germany, in March 2019. The 13 full papers and 9 short papers in this volume were carefully reviewed and selected from 66 submissions. The papers were organized in topical sections named: Automated Analysis; Making Sense of Requirements; Tracelink Quality; Requirements Management (Research Previews); From Vision to Specification; Automated Analysis (Research Previews); Requirements Monitoring; Open Source; Managing Requirements Knowledge at a Large Scale; in Situ/Walkthroughs (Research previews).

**Advanced Information Systems Engineering Workshops** Jun 19 2021 This book constitutes the thoroughly refereed proceedings of five international workshops held in Thessaloniki, Greece, in conjunction with the 26th International Conference on Advanced Information Systems Engineering, CAiSE 2014, in June 2014. The 24 full and eight short papers were carefully selected from 63 submissions. The five workshops were the First International Workshop on Advanced Probability and Statistics in Information Systems (APSIS), the First International Workshop on Advances in Services Design Based on the Notion of Capability, the Second International Workshop on Cognitive Aspects of Information Systems Engineering (COGNISE), the Third Workshop on New Generation Enterprise and Business Innovation Systems (NGEBIS), and the 4th International Workshop on Information Systems Security Engineering (WISSE).

**Market Engineering** Sep 10 2020 This open access book provides a broad range of insights on market engineering and information

management. It covers topics like auctions, stock markets, electricity markets, the sharing economy, information and emotions in markets, smart decision-making in cities and other systems, and methodological approaches to conceptual modeling and taxonomy development. Overall, this book is a source of inspiration for everybody working on the vision of advancing the science of engineering markets and managing information for contributing to a bright, sustainable, digital world. Markets are powerful and extremely efficient mechanisms for coordinating individuals' and organizations' behavior in a complex, networked economy. Thus, designing, monitoring, and regulating markets is an essential task of today's society. This task does not only derive from a purely economic point of view. Leveraging market forces can also help to tackle pressing social and environmental challenges. Moreover, markets process, generate, and reveal information. This information is a production factor and a valuable economic asset. In an increasingly digital world, it is more essential than ever to understand the life cycle of information from its creation and distribution to its use. Both markets and the flow of information should not arbitrarily emerge and develop based on individual, profit-driven actors. Instead, they should be engineered to serve best the whole society's goals. This motivation drives the research fields of market engineering and information management. With this book, the editors and authors honor Professor Dr. Christof Weinhardt for his enormous and ongoing contribution to market engineering and information management research and practice. It was presented to him on the occasion of his sixtieth birthday in April 2021. Thank you very much, Christof, for so many years of cooperation, support, inspiration, and friendship.

**Advanced Information Systems Engineering Workshops** Dec 26 2021 This book constitutes the thoroughly refereed proceedings of the international workshops associated with the 34th International Conference on Advanced Information Systems Engineering, CAiSE 2022, which was held in Leuven, Belgium, during June 6-10, 2022. The workshops included in this volume are: · BC4IS: Second International Workshop on Blockchain for Information Systems · ISESL: Second International

Workshop on Information Systems Engineering for Smarter Life · KET4DF: 4th International Workshop on Key Enabling Technology for Digital Factories They reflect a broad range of topics and trends ranging from blockchain technologies via digital factories, ethics, and ontologies, to the agile methods for business and information systems. The 11 full papers and 1 short paper presented in this book were carefully reviewed and selected from 23 submissions.

Advanced Information Systems Engineering Oct 12 2020 This book constitutes the refereed proceedings of the 32nd International Conference on Advanced Information Systems Engineering, CAiSE 2020, held in Grenoble, France, in June 2020.\* The 33 full papers presented in this volume were carefully reviewed and selected from 185 submissions. The book also contains one invited talk in full paper length. The papers were organized in topical sections named: distributed applications; AI and big data in IS; process mining and analysis; requirements and modeling; and information systems engineering. Abstracts on the CAiSE 2020 tutorials can be found in the back matter of the volume. \*The conference was held virtually due to the COVID-19 pandemic.

*On the Move to Meaningful Internet Systems: OTM 2012 Workshops* Sep 30 2019 This volume constitutes the refereed proceedings of ten international workshops, OTM Academy, Industry Case Studies Program, EI2N, INBAST, Meta4eS, OnToContent, ORM, SeDeS, SINCOM and SOMOCO 2012, held as part of OTM 2012 in Rome, Italy, in September 2012. The 66 revised full papers presented were carefully reviewed and

selected from a total of 127 submissions. The volume also includes 7 papers from the On the Move Academy (OTMA) 2012 as well as 4 CoopIS 2012 poster papers and 5 ODBASE 2012 poster papers. The paper cover various aspects of computer supported cooperative work (CSCW), middleware, Internet/Web data management, electronic commerce, enterprise modelling, workflow management, knowledge flow, agent technologies, information retrieval, software architectures, service-oriented computing, and cloud computing.

**Gerontechnology III** Dec 02 2019 This book gathers revised selected papers from the 3rd International Workshop on Gerontechnology, IWOG 2020, held on October 5-6, 2020, in Évora, Portugal. They reports on cutting-edge technologies and optimized workflows for promoting active aging and assisting and elderly people at home, as well as in healthcare centers. It discusses the main challenges in the development, use and delivery of health care services and technologies. Not only they proposes solutions for improving in practice the monitoring and management of health parameters and age-related diseases, yet they also describes improved approaches for helping seniors in their daily tasks and facilitating their communication and integration with assistive technologies, thus improving their quality of life, as well as their social integration. The book provides health professionals, researchers, and service providers with extensive information on the latest trends in the development and practical application of gerontechnology in elderly care.