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KEY=FOR - TIANA ERICKSON

Platform Ontologies for the Model-Driven Architecture *ASP / VUBPRESS / UPA* **The only study to integrate a platform-driven decision framework with the model-driven architecture (MDA), this in-depth, practical guide explains how to combine three technology areas--MDA, ontologies, and software product lines--in order to integrate several platform-specific software products into a single MDA. Further exploring concepts such as knowledge-representation systems, artificial intelligence, and the "semantic web," this complete resource reveals why these technologies are so highly relevant today and speculates on how they will impact future software development. Model Driven Architecture - Foundations and Applications First European Conference, ECMDA-FA 2005, Nuremberg, Germany, November 7-10, 2005, Proceedings** *Springer* **This book constitutes the refereed proceedings of the First European Conference, Workshops on Model Driven Architecture - Foundations and Applications, ECMDA-FA 2005, held in Nuremberg, Germany in November 2005. The 24 revised full papers presented, 9 papers from the applications track and 15 from the foundations track, were carefully reviewed and selected from 82 submissions. The latest and most relevant information on model driven software engineering in the industrial and academic spheres is provided. The papers are organized in topical sections on MDA development processes, MDA for embedded and real-time systems, MDA and component-based software engineering, metamodelling, model transformation, and model synchronization and consistency. Interoperability of Enterprise Software and Applications** *Springer Science & Business Media* **Interoperability: the ability of a system or a product to work with other systems or products without special effort from the user is a key issue in manufacturing and industrial enterprise generally. It is fundamental to the production of goods and services quickly and at low cost at the same time as maintaining levels of quality and customisation. Composed of 40 papers of international authorship, Interoperability of Enterprise Software and Applications ranges from academic research through case studies to industrial experience of interoperability. Many of the papers have examples and illustrations calculated to deepen understanding and generate new ideas. A concise reference to the state of the art in software interoperability, Interoperability of Enterprise Software and Applications will be of great value to engineers and computer scientists working in manufacturing and other process industries and to software engineers and electronic and manufacturing engineers working in the academic environment. Model Driven Architecture and Ontology Development** *Springer Science & Business Media* **Defining a formal domain ontology is considered a useful, not to say necessary step in almost every software project. This is because software deals with ideas rather than with self-evident physical artefacts. However, this development step is hardly ever done, as ontologies rely on well-defined and semantically powerful AI concepts such as description logics or rule-based systems, and most software engineers are unfamiliar with these. This book fills this gap by covering the subject of MDA application for ontology development on the Semantic Web. The writing is technical yet clear, and is illustrated with examples. The book is supported by a website. Wired/Wireless Internet Communications 9th IFIP TC 6 International Conference, WWIC 2011, Vilanova i la Geltrú, Spain, June 15-17, 2011, Proceedings** *Springer* **This book constitutes the proceedings of the 9th IFIP TC 6 International Conference on Wired/Wireless Internet Communications, WWIC 2011, held in Vilanova i la Geltrú, Spain, in June 2011. The 26 contributions included were carefully reviewed and selected from 50 submissions. In addition the book contains 15 invited papers. The contributions are structured in topical sections on mobility and LTE networks; performance and simulation analysis; adaptive approaches to guarantee E2E network services; energy efficiency and cooperation in wireless networks; transmission and management; quality through routing, naming and control; wireless multi-hop communications challenges in the future internet; and emerging contributions. Model Driven Engineering and Ontology Development** *Springer Science & Business Media* **Defining a formal domain ontology is considered a useful, not to say necessary step in almost every software project. This is because software deals with ideas rather than with self-evident physical artefacts. However, this development step is hardly ever done, as ontologies rely on well-defined and semantically powerful AI concepts such as description logics or rule-based systems, and most software engineers are unfamiliar with these. This book fills this gap by covering the subject of MDA application for ontology development on the Semantic Web. The writing is technical yet clear, and is illustrated with examples. The book is supported by a website. Graph Transformations and Model-Driven Engineering Essays Dedicated to Manfred Nagl on the Occasion of his 65th Birthday** *Springer* **This festschrift volume, published in honor of Manfred Nagl on the occasion of his 65th birthday, contains 30 refereed contributions, that cover graph transformations, software architectures and reengineering, embedded systems engineering, and more. Model-Driven Architecture - Foundations and Applications Second European Conference, ECMDA-FA 2006, Bilbao, Spain, July 10-13, 2006, Proceedings** *Springer Science & Business Media* **This book constitutes the refereed proceedings of the Second European Conference on Model Driven Architecture - Foundations and Applications, ECMDA-FA 2006, held in Bilbao, Spain, in July 2006. The 30 revised full papers presented - 18 papers from the foundations track and 12 from the applications track -**

were carefully reviewed and selected from 78 submissions. The papers are organized in topical sections on integration, applikcatoins of transformations, applications of MDA, process, model consistency, model management, transformation, ontologies, re-engineering, tools and profiles, tool generation, constraints, model management and transformations. Model Driven Architecture European MDA Workshops: Foundations and Applications, MDAFA 2003 and MDAFA 2004, Twente, The Netherlands, June 26-27, 2003, and Linköping, Sweden, June 10-11, 2004, Revised Selected Papers *Springer* Model-Driven Architecture (MDA) is an initiative proposedby the Object M- agement Group (OMG) for platform-generic software development. MDA s- arates the speci?cation of system functionality from the implementation on a speci?c platform. It is aimed at making software assets more resilient to changes caused by emerging technologies. While stressing the importance of modeling, the MDA initiative covers a wide spectrum of research areas. Further e?orts are required to bring them into a coherent approach based on open standards and supported by matured tools and techniques. Thisvolumecontainstheselectedpapersoftwoworkshopson"Model-Driven Architecture – Foundations and Applications" (MDAFA): MDAFA 2003 held at the University of Twente, Twente, The Netherlands, June 26–27, 2003, and MDAFA 2004 held at Linko¨ping University, Link¨ oping, Sweden, June 10–11, 2004. The goal of the workshops was to understand the foundations of MDA, to share experience in applying MDA techniques and tools, and to outline future research directions. The workshops organizers encouraged authors of accepted papers to re-submit their papers to a post-workshop reviewing process; 15 of these papers were accepted to appear in this volume on MDA. Formal Ontology in Information Systems Proceedings of the Fifth International Conference (FOIS 2008) *IOS Press* The International Conference in Formal Ontology on Information Systems (FOIS) has explored the multiple perspectives on the notion of ontology that have arisen from such diverse research communities as philosophy, logic, computer science, cognitive science, linguistics, and various scientific domains. On the Move to Meaningful Internet Systems 2005: CoopIS, DOA, and ODBASE OTM Confederated International Conferences, CoopIS, DOA, and ODBASE 2005, Agia Napa, Cyprus, October 31 - November 4, 2005, Proceedings *Springer Science & Business Media* This two-volume set LNCS 3760/3761 constitutes the refereed proceedings of the three confederated conferences CoopIS 2005, DOA 2005, and ODBASE 2005 held as OTM 2005 in Agia Napa, Cyprus in October/November 2005. The 89 revised full and 7 short papers presented together with 3 keynote speeches were carefully reviewed and selected from a total of 360 submissions. Corresponding with the three OTM 2005 main conferences CoopIS, DOA, and ODBASE, the papers are organized in topical sections on workflow, workflow and business processes, mining and filtering, petri nets and processs management, information access and integrity, heterogeneity, semantics, querying and content delivery, Web services, agents, security, integrity and consistency, chain and collaboration mangement, Web services and service-oriented architectures, multicast and fault tolerance, communication services, techniques for application hosting, mobility, security and data persistence, component middleware, java environments, peer-to-peer computing architectures, aspect oriented middleware, information integration and modeling, query processing, ontology construction, metadata, information retrieval and classification, system verification and evaluation, and active rules and Web services. Ontologies for Urban Development *Springer* This volume, aimed at graduate students, computer experts and researchers in urban planning, presents the contributions to a workshop held in Geneva in 2006, that was convened to address emerging issues in the field of urban development. Contributions come from a huge variety of interested parties, ranging from construction to urban tourism and from transport infrastructure to resource visualization. The volume represents a valuable overview of major current issues in the field of urban ontologies and encapsulates many useful and different approaches. Ontology-Driven Software Development *Springer Science & Business Media* This book is about a significant step forward in software development. It brings state-of-the-art ontology reasoning into mainstream software development and its languages. Ontology Driven Software Development is the essential, comprehensive resource on enabling technologies, consistency checking and process guidance for ontology-driven software development (ODSD). It demonstrates how to apply ontology reasoning in the lifecycle of software development, using current and emerging standards and technologies. You will learn new methodologies and infrastructures, additionally illustrated using detailed industrial case studies. The book will help you: Learn how ontology reasoning allows validations of structure models and key tasks in behavior models. Understand how to develop ODSD guidance engines for important software development activities, such as requirement engineering, domain modeling and process refinement. Become familiar with semantic standards, such as the Web Ontology Language (OWL) and the SPARQL query language. Make use of ontology reasoning, querying and justification techniques to integrate software models and to offer guidance and traceability supports. This book is helpful for undergraduate students and professionals who are interested in studying how ontologies and related semantic reasoning can be applied to the software development process. In addition, itwill also be useful for postgraduate students, professionals and researchers who are going to embark on their research in areas related to ontology or software engineering. Model Driven Engineering Languages and Systems 11th International Conference, MoDELS 2008, Toulouse, France, September 28 - October 3, 2008, Proceedings *Springer Science & Business Media* MODELS2008wasthe11theditionoftheseriesofconferencesonModel-Driven Engineering Languages and Systems. The conference was held in Toulouse, France, during the week of September 28 to October 3, 2008. The local arran- ments were provided by the Institut de Recherche en Informatique de Toulouse (IRIT). The conference program included three keynote presentations, technical - per presentations, two panels, and several workshops and tutorials. The invited keynote speakers were Don Batory (University of Texas, USA), Je? Kramer (Imperial College London, UK), and Patrick Rauhut (Airbus, Germany). Thisvolumecontainsthe?nalversionsofthepapersacceptedforpresentation attheconference.Thepaperscoverawiderangeoftopicsfromthe?eldincluding model transformation, model management, domain-speci?c modeling, modeling language semantics, model analysis, and applications. We received a record number of 271 full paper submissions from 40 di?erent countries. Of these, 43 papers were submitted by authors from more than one country. The top three countries submitting papers were France (40), Germany (38), and Canada (24). A

total of 58 papers were accepted for inclusion in the proceedings. The acceptance rate was therefore 21%, which is somewhat lower than those of the previous MODELS conferences. At least three Program Committee or Expert Reviewer Panel members - viewed each paper. Reviewing wasthorough,and most authors received detailed comments on their submissions. Con?icts of interest were taken very seriously. No-oneparticipatedinany wayin the decisionprocessofanypaper wherea c- ?ict of interest was identi?ed. In particular, PC members who submitted papers did not have access to information concerning the reviews of their papers. Handbook Of Software Engineering And Knowledge Engineering, Vol 3: Recent Advances *World Scientific* The book covers the recent new advances in software engineering and knowledge engineering. It is intended as a supplement to the two-volume handbook of software engineering and knowledge engineering. The editor and authors are well-known international experts in their respective fields of expertise. Each chapter in the book is entirely self-contained and gives in-depth information on a specific topic of current interest. This book will be a useful desktop companion for both practitioners and students of software engineering and knowledge engineering. Advanced Methodologies and Technologies in Network Architecture, Mobile Computing, and Data Analytics *IGI Global* From cloud computing to data analytics, society stores vast supplies of information through wireless networks and mobile computing. As organizations are becoming increasingly more wireless, ensuring the security and seamless function of electronic gadgets while creating a strong network is imperative. Advanced Methodologies and Technologies in Network Architecture, Mobile Computing, and Data Analytics highlights the challenges associated with creating a strong network architecture in a perpetually online society. Readers will learn various methods in building a seamless mobile computing option and the most effective means of analyzing big data. This book is an important resource for information technology professionals, software developers, data analysts, graduate-level students, researchers, computer engineers, and IT specialists seeking modern information on emerging methods in data mining, information technology, and wireless networks. Precision Medicine Powered by pHealth and Connected Health ICBHI 2017, Thessaloniki, Greece, 18-21 November 2017 *Springer* This volume presents the proceedings of the 3rd ICBHI which took place in Thessaloniki on 18-21 November, 2017.The area of biomedical and health informatics is exploding at all scales. The developments in the areas of medical devices, eHealth and personalized health as enabling factors for the evolution of precision medicine are quickly developing and demand the development of new scaling tools, integration frameworks and methodologies. GeoSpatial Semantics First International Conference, GeoS 2005, Mexico City, Mexico, November 29-30, 2005, Proceedings *Springer Science & Business Media* This book constitutes the refereed proceedings of the First International Conference on GeoSpatial Semantics, GeoS 2005, held in Mexico City, Mexico in November 2005. The 15 revised full papers presented together with 4 short papers were carefully reviewed and selected from 42 submissions. The papers are organized in topical sections on theories for the semantics of geospatial information, formal representations for geospatial data, similarity comparison of spatial data sets, ontology-based spatial information retrieval, and geospatial semantic Web. The Semantic Web - ISWC 2006 5th International Semantic Web Conference, ISWC 2006, Athens, GA, USA, November 5-9, 2006, Proceedings *Springer Science & Business Media* "Evolve or perish" – this is the motto for living systems. Judging by this saying, the Web is alive and well: new sites and business ideas are coming online almost daily and are able to attract millions of users often. The more recently coined term "Web 2.0" summarizes many of the new developments, capturing efforts making the Web more interactive (like Ajax), more collaborative (like Wikis), or more relationship oriented (like online social networks), aiming to partially fulfill the original promise of the Web. These new Web developments offer an opportunity and challenge for the Semantic Web: what previously manifested itself mostly in "dry" specifications is now becoming the foundation for information exchange on the Web, creating a shared semantic information space. These and other challenges have been picked up by several hundred computer scientists, developers, vendors, government workers, venture capitalists, students, and users, gathered in Athens, Atlanta, USA, November 5-9, 2006, for the Fifth International Semantic Web Conference (ISWC 2006). Building on previous successful meetings in Sardinia, Sanibel Island, Hiroshima, and Galway, this sixth annual conference demonstrates new research results, technology, and applications that show current incarnations of the Semantic Web. Especially encouraging is the shift towards more applications—whereas the Research Track attracted roughly as many papers as in the previous year, the contributions submitted to the In-Use Track doubled. Software Development Techniques for Constructive Information Systems Design *IGI Global* Software development and information systems design have a unique relationship, but are often discussed and studied independently. However, meticulous software development is vital for the success of an information system. Software Development Techniques for Constructive Information Systems Design focuses the aspects of information systems and software development as a merging process. This reference source pays special attention to the emerging research, trends, and experiences in this area which is bound to enhance the reader's understanding of the growing and ever-adapting field. Academics, researchers, students, and working professionals in this field will benefit from this publication's unique perspective. Advancing Information Management through Semantic Web Concepts and Ontologies *IGI Global* "This book provides an analysis and introduction on the concept of combining the areas of semantic web and web mining, emphasizing semantics in technologies, reasoning, content searching and social media"--Provided by publisher. Virtual, Augmented and Mixed Reality: Applications of Virtual and Augmented Reality 6th International Conference, VAMR 2014, Held as Part of HCI International 2014, Heraklion, Crete, Greece, June 22-27, 2014, Proceedings, Part II *Springer* The two-volume set LNCS 8525-8526 constitutes the refereed proceedings of the 6th International Conference on Virtual, Augmented and Mixed Reality, VAMR 2014, held as part of the 16th International Conference on Human-Computer Interaction, HCI 2014, in Heraklion, Crete, Greece, in June 2014, jointly with 13 other thematically similar conferences. The total of 1476 papers and 220 posters presented at the HCII 2014 conferences were carefully reviewed and selected from 4766 submissions. 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 total of 82 contributions included in the VAMR proceedings were carefully reviewed and selected for inclusion in this two-volume set. The 43 papers included in this volume are organized in the following topical sections: VAMR in education and cultural heritage; games and entertainment; medical, health and rehabilitation applications; industrial, safety and military applications. Multiagent System Technologies 7th German Conference, MATES 2009 Hamburg, Germany, September 9-11, 2009 Proceedings *Springer Science & Business Media* This book constitutes the refereed proceedings of the 7th German Conference on Multiagent Systems Technologies, MATES 2009, held in Hamburg, Germany in September 2009 - colocated with the 10th International Workshop on Computational Logic in Multi-Agent Systems (CLIMA X) and the 5th International Workshop on Modelling of Objects, Components, and Agents (MOCA 2009). The 14 revised full papers, 10 short papers, and 5 exhibition papers presented together with one invited talk were carefully reviewed and selected from 44 submissions. The papers present and discuss the latest advances of research and development in the area of autonomous agents and multiagent systems ranging from theoretical and methodological issues to applications in various fields. Advanced Transport Protocols Designing the Next Generation *John Wiley & Sons* The current diversity of transport services, as well as the complexity resulting from the deployment of specific transport protocols or mechanisms over the different services provided by heterogeneous networks, demand a novel design of the transport layer. Moreover, current and future applications will only be able to take advantage of the most adapted and available transport services if they are able to interact (i.e. discover, compose, deploy and adapt) efficiently with this advanced transport layer. The work presented in this book proposes a model-driven methodology and a service-oriented approach aimed at designing the mechanisms, functions, protocols and services of the next generation transport layer. The first part of this book presents the state of the art of transport protocols and introduces a model-driven methodology and an ontology semantic model implementation aimed at designing next generation transport protocols. The second part presents the UML-based design of a component-based transport protocol. An extension to this protocol based on service-component and service-oriented architectures is also presented. The third part presents various model-driven adaptive strategies aimed at managing the behavioral and structural adaptation of next generation autonomic transport protocols. The fourth and final part presents the design of a transport layer based on component-oriented and service-oriented approaches and integrating the autonomic computing paradigm guided by the semantic dimension provided by ontologies. New Trends in Software Methodologies, Tools and Techniques *IOS Press* "Software is the essential enabler for the new economy and for science. It creates new markets and new directions for a more reliable, flexible and robust society. It empowers the exploration of our world in ever more depth. However, software often falls short of our expectations. Current software methodologies, tools, and techniques remain expensive and not yet reliable enough for a highly changeable and evolutionary market. Many approaches have been proven only as case-by-case oriented methods. This book, as part of the SOMET series, presents new trends and theories in the direction in which we believe software science and engineering may develop to transform the role of software and science integration in tomorrows global information society. This book is an attempt to capture the essence on a new state of art in software science and its supporting technology. The book also aims at identifying the challenges such a technology has to master. One of the important issues addressed by this book is software development security tools and techniques." Advanced Information Systems Engineering Workshops CAiSE 2011 International Workshops, London, UK, June 20-24, 2011, Proceedings *Springer* 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 (INISET), 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). Multiagent System Technologies 14th German Conference, MATES 2016, Klagenfurt, Österreich, September 27-30, 2016. Proceedings *Springer* This book constitutes the proceedings of the 14th German Conference on Multiagent System Technologies, MATES 2016, held in Klagenfurt, Austria, in September 2016. 12 long papers and 5 short papers were carefully reviewed and selected from 28 submissions. MATES 2016 conference talks covered a broad area of topics of interest including MAS engineering and modeling, issues of human-agent interaction, collaboration and coordination, agent-based adaptation and optimization, and applications of MAS, in particular in the smart energy domain. Ubiquitous Computing *BoD – Books on Demand* The aim of this book is to give a treatment of the actively developed domain of Ubiquitous computing. Originally proposed by Mark D. Weiser, the concept of Ubiquitous computing enables a real-time global sensing, context-aware informational retrieval, multi-modal interaction with the user and enhanced visualization capabilities. In effect, Ubiquitous computing environments give extremely new and futuristic abilities to look at and interact with our habitat at any time and from anywhere. In that domain, researchers are confronted with many foundational, technological and engineering issues which were not known before. Detailed cross-disciplinary coverage of these issues is really needed today for further progress and widening of application range. This book collects twelve original works of researchers from eleven countries, which are clustered into four sections: Foundations, Security and Privacy, Integration and Middleware, Practical Applications. Connected Environments for the Internet of Things Challenges and Solutions *Springer* This comprehensive text/reference presents a broad-ranging overview of device connectivity in distributed computing environments, supporting the vision of an Internet of Things (IoT). Expert perspectives are provided by an international selection of researchers from both industry and academia, covering issues of communication, security, privacy, interoperability, networking, access control, and authentication. In addition to discussing state-of-the-art research and practice, the book includes

corporate analyses offering a balanced view of benefits and limitations, and numerous case studies illustrating the challenges and practical solutions. Topics and features: discusses issues of security and privacy in connected environments, with a specific focus on the impact of the IoT paradigm on enterprise information systems; examines the challenges of managing big data in IoT environments, and proposes cloud computing-based solutions to the limitations inherent in the IoT paradigm; suggests approaches to overcome service-level interoperability problems in the IoT environment; introduces a mobile IoT simulator designed to evaluate the behavior of IoT systems, in addition to a novel approach to manage hyper-connectivity in the IoT; describes the use of the Essence framework to model software development methods, and highlights the benefits of integrating data from smart buildings and IoT devices; presents an asymmetric schema matching mechanism for IoT interoperability, and explores the topic of automatic provenance capture at the middleware level; reviews emerging network topologies and communication technologies, and advises on the adoption of a data distribution service as a middleware platform for IoT systems. This practically-oriented volume serves as a complete reference for students, researchers and practitioners of distributed computing, providing insights into the latest approaches, technologies, and frameworks relevant to the IoT environment. *Springer Nature* Information and Software Technologies 24th International Conference, ICIST 2018, Vilnius, Lithuania, October 4–6, 2018, Proceedings *Springer* This book constitutes the refereed proceedings of the 24th International Conference on Information and Software Technologies, ICIST 2018, held in Vilnius, Lithuania, in October 2018. The 48 papers presented were carefully reviewed and selected from 124 submissions. The papers are organized in topical sections on information systems; business intelligence for information and software systems; software engineering; and information technology applications. Web Information Systems and Mining International Conference, WISM 2009, Shanghai, China, November 7-8, 2009, Proceedings *Springer* Researchers and professionals Informatics in Economy 15th International Conference, IE 2016, Cluj-Napoca, Romania, June 2-3, 2016, Revised Selected Papers *Springer* This book constitutes revised selected papers from the 15th International Conference on Informatics in Economy, IE 2016, held in Cluj-Napoca, Romania, in June 2016. The 10 full papers and 4 short papers presented in this volume were carefully reviewed and selected from 31 extended paper submissions for this book. They are organized in sections on Distributed Systems, Information Systems Adoption, Knowledge Representation and Processing, Domain-specific Data Analysis, and Computational Models. The volume also contains one invited keynote paper in full-paper length. Advanced Design and Manufacture to Gain a Competitive Edge New Manufacturing Techniques and their Role in Improving Enterprise Performance *Springer Science & Business Media* Manufacturing industry has been one of the key drivers for recent rapid global economic development. Globalisation of manufacturing industries due to distributed design and labour advantage leads to a drive and thirst for technological advancements and expertise in the fields of advanced design and manufacturing. This development results in many economical benefits to and improvement of quality of life for many people all over the world. This rapid development also creates many opportunities and challenges for both industrialists and academics, as the design requirements and constraints have completely changed in this global design and manufacture environment. Consequently the way to design, manufacture and realise products have changed as well. More and more design and manufacture tasks can now be undertaken within computer environment using simulation and virtual reality technologies. These technological advancements hence support more advanced product development and manufacturing operations in such a global design and manufacturing environment. In this global context and scenario, both industry and the academia have an urgent need to equip themselves with the latest knowledge, technology and methods developed for engineering design and manufacture. Quality of Life Through Quality of Information Proceedings of MIE2012 *IOS Press* Medical informatics and electronic healthcare have many benefits to offer in terms of quality of life for patients, healthcare personnel, citizens and society in general. But evidence-based medicine needs quality information if it is to lead to quality of health and thus to quality of life. This book presents the full papers accepted for presentation at the MIE2012 conference, held in Pisa, Italy, in August 2012. The theme of the 2012 conference is aeQuality of Life through Quality of InformationAE. As always, the conference provides a unique platform for the exchange of ideas and experiences among the actors and stakeholders of ICT supported healthcare. The book incorporates contributions related to the latest achievements in biomedical and health informatics in terms of major challenges such as interoperability, collaboration, coordination and patient-oriented healthcare at the most appropriate level of care.It also offers new perspectives for the future of biomedical and health informatics, critical appraisal of strategies for user involvement, insights for design, deployment and the sustainable use of electronic health records, standards, social software, citizen centred e-health, and new challenges in rehabilitation and social care informatics. The topics presented are interdisciplinary in nature and will be of interest to a variety of professionals; physicians, nurses and other allied health providers, health informaticians, engineers, academics and representatives from industry and consultancy in the various fields. SDL 2017: Model-Driven Engineering for Future Internet 18th International SDL Forum, Budapest, Hungary, October 9–11, 2017, Proceedings *Springer* This book constitutes the proceedings of the 18th International System Design Language Forum, SDL 2017, held in Budapest, Hungary, in October 2017. The 10 full papers presented in this volume were carefully reviewed and selected from 17 submissions. The selected papers cover a wide spectrum of topics related to system design languages ranging from the system design language usage to UML and GRL models; model-driven engineering of database queries; network service design and regression testing; and modeling for Internet of Things (IoT) data processing. Artificial Intelligence Applications and Innovations IFIP 18th World Computer Congress TC12 First International Conference on Artificial Intelligence Applications and Innovations (AIAI-2004) 22–27 August 2004 Toulouse, France *Springer* Artificial Intelligence and Innovations (AIAI) will interest researchers, IT professionals and consultants by examining technologies and applications of demonstrable value. The conference focused on profitable intelligent systems and technologies. AIAI focuses on real world applications; therefore authors should highlight the benefits of AI technology for industry and services. Novel approaches solving business and industrial problems, using AI, will emerge

from this conference. Artifact-Driven Business Process Monitoring A Novel Approach to Transparently Monitor Business Processes, Supported by Methods, Tools, and Real-World Applications *Springer Nature* This book proposes a novel technique, named artifact-driven process monitoring, by which multi-party processes, involving non-automated activities, can be continuously and autonomously monitored. This technique exploits the Internet of Things (IoT) paradigm to make the physical objects, participating in a process, smart. Being equipped with sensors, a computing device, and a communication interface, such smart objects can then become self-aware of their own conditions and of the process they participate in, and exchange this information with the other smart objects and the involved organizations. To allow organizations to reuse preexisting process models, a method to instruct smart objects given Business Process Model and Notation (BPMN) collaboration diagrams is also presented. The work constitutes a revised version of the PhD dissertation written by the author at the PhD School of Information Engineering of Politecnico di Milano, Italy. In 2019, the PhD dissertation won the "CAiSE PhD award", granted to outstanding PhD theses in the field of Information Systems Engineering. Innovations in Smart Cities Applications Edition 2 The Proceedings of the Third International Conference on Smart City Applications *Springer* This book highlights cutting-edge research presented at the third installment of the International Conference on Smart City Applications (SCA2018), held in Tétouan, Morocco on October 10–11, 2018. It presents original research results, new ideas, and practical lessons learned that touch on all aspects of smart city applications. The respective papers share new and highly original results by leading experts on IoT, Big Data, and Cloud technologies, and address a broad range of key challenges in smart cities, including Smart Education and Intelligent Learning Systems, Smart Healthcare, Smart Building and Home Automation, Smart Environment and Smart Agriculture, Smart Economy and Digital Business, and Information Technologies and Computer Science, among others. In addition, various novel proposals regarding smart cities are discussed. Gathering peer-reviewed chapters written by prominent researchers from around the globe, the book offers an invaluable instructional and research tool for courses on computer and urban sciences; students and practitioners in computer science, information science, technology studies and urban management studies will find it particularly useful. Further, the book is an excellent reference guide for professionals and researchers working in mobility, education, governance, energy, the environment and computer sciences. Securing the Internet of Things: Concepts, Methodologies, Tools, and Applications Concepts, Methodologies, Tools, and Applications *IGI Global* The ubiquity of modern technologies has allowed for increased connectivity between people and devices across the globe. This connected infrastructure of networks creates numerous opportunities for applications and uses. As the applications of the internet of things continue to progress so do the security concerns for this technology. The study of threat prevention in the internet of things is necessary as security breaches in this field can ruin industries and lives. Securing the Internet of Things: Concepts, Methodologies, Tools, and Applications is a vital reference source that examines recent developments and emerging trends in security and privacy for the internet of things through new models, practical solutions, and technological advancements related to security. Highlighting a range of topics such as cloud security, threat detection, and open source software, this multi-volume book is ideally designed for engineers, IT consultants, ICT procurement managers, network system integrators, infrastructure service providers, researchers, academics, and professionals interested in current research on security practices pertaining to the internet of things.