

Massimo Cossentino · Vincent Hilaire
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Handbook on Agent-Oriented Design Processes

 Springer

Handbook On Agent Oriented Design Processes

DJ Losen



Handbook On Agent Oriented Design Processes:

Handbook on Agent-Oriented Design Processes Massimo Cossentino, Vincent Hilaire, Ambra Molesini, Valeria Seidita, 2014-03-28 To deal with the flexible architectures and evolving functionalities of complex modern systems the agent metaphor and agent based computing are often the most appropriate software design approach As a result a broad range of special purpose design processes has been developed in the last several years to tackle the challenges of these specific application domains In this context in early 2012 the IEEE FIPA Design Process Documentation Template SC0097B was defined which facilitates the representation of design processes and method fragments through the use of standardized templates thus supporting the creation of easily sharable repositories and facilitating the composition of new design processes Following this standardization approach this book gathers the documentations of some of the best known agent oriented design processes After an introductory section describing the goal of the book and the existing IEEE FIPA standard for design process documentation thirteen processes including the widely known Open UP the de facto standard in object oriented software engineering are documented by their original creators or other well known scientists working in the field As a result this is the first work to adopt a standard unified descriptive approach for documenting different processes making it much easier to study the individual processes to rigorously compare them and to apply them in industrial projects While there are a few books on the market describing the individual agent oriented design processes none of them presents all the processes let alone in the same format With this handbook for the first time researchers as well as professional software developers looking for an overview as well as for detailed and standardized descriptions of design processes will find a comprehensive presentation of the most important agent oriented design processes which will be an invaluable resource when developing solutions in various application areas

Agents and Artificial Intelligence Ana Paula Rocha, Luc Steels, Jaap van den Herik, 2022-07-18 This book constitutes selected papers from the refereed proceedings of the 13th International Conference on Agents and Artificial Intelligence ICAART 2021 which was held online during February 4-6 2021 A total of 72 full and 99 short papers were carefully reviewed and selected for the conference from a total of 298 submissions 17 selected full papers are included in this book They were organized in topical sections named agents and artificial intelligence

Handbook of Research on Investigations in Artificial Life Research and Development Habib, Maki, 2018-06-08 Research on artificial life is critical to solving various dynamic obstacles individuals face on a daily basis From electric wheelchairs to navigation artificial life can play a role in improving both the simple and complex aspects of civilian life The Handbook of Research on Investigations in Artificial Life Research and Development is a vital scholarly reference source that examines emergent research in handling real world problems through the application of various computation technologies and techniques Examining topics such as computational intelligence multi agent systems and fuzzy logic this publication is a valuable resource for academicians scientists researchers and individuals interested in artificial intelligence developments

Handbook Of Software Engineering And Knowledge Engineering, Vol 3: Recent Advances Shi-kuo

Chang,2005-08-25 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 *Advances in Industrial*

Engineering in the Industry 4.0 Era Kaushik Kumar,2024-06-17 At the core of this book are several application areas where Industry 4 0 has been or can be applied This book introduces the Fourth Industrial Revolution with discussions and reflections that will lead the reader into a deeper understanding of the nature of the concept This book also reveals various facets that can be applied and utilized for implementation of the concept in various sectors This book Comprehensively discusses skills for Industry 4 0 Provides insights into the application of Industry 4 0 in the healthcare sector Presents involvement of Industry 4 0 in current concepts such as supply chain and blockchain Showcases innovative additive manufacturing to enhance human machine co working Includes virtualization and simulation techniques for decision making in manufacturing and assembly processes This book is primarily written for graduate students and academic researchers in the fields of industrial engineering manufacturing engineering mechanical engineering production engineering and aerospace engineering **Intelligent Interactive Multimedia Systems and Services 2016** Giuseppe De Pietro,Luigi

Gallo,Robert J. Howlett,Lakhmi C. Jain,2016-06-03 This book contains the contributions presented at the ninth international KES conference on Intelligent Interactive Multimedia Systems and Services which took place in Puerto de la Cruz Tenerife Spain June 15 17 2016 It contains 65 peer reviewed book chapters that focus on issues ranging from intelligent image or video storage retrieval transmission and analysis to knowledge based technologies from advanced information technology architectures for video processing and transmission to advanced functionalities of information and knowledge based services We believe that this book will serve as a useful source of knowledge for both academia and industry for all those faculty members research scientists scholars Ph D students and practitioners who are interested in fundamental and applied facets of intelligent interactive multimedia **Business Modeling and Software Design** Boris Shishkov,2018-06-29 This book

constitutes the proceedings of the 8th International Symposium on Business Modeling and Software Design BMSD 2018 held in Vienna Austria in July 2018 The 14 full papers and 21 short papers selected for inclusion in this book deal with a large number of research topics i Some topics concern Business Processes BP such as BP modeling notations visualizations BP management BP variability BP contracting BP interoperability BP modeling within augmented reality inter enterprise collaborations and so on ii Other topics concern Software Design such as software ecosystems specification of context aware software systems service oriented solutions and micro service architectures product variability software development

monitoring and so on iii Still other topics are crosscutting with regard to business modeling and software design such as data analytics as well as information security and privacy iv Other topics concern hot technology innovation areas such as blockchain technology and internet of things Underlying with regard to all those topics is the BMSD 18 theme Enterprise Engineering and Software Engineering Processes and Systems for the Future Industrial Agents Paulo Leitão,Stamatis Karnouskos,2015-03-13 Industrial Agents explains how multi agent systems improve collaborative networks to offer dynamic service changes customization improved quality and reliability and flexible infrastructure Learn how these platforms can offer distributed intelligent management and control functions with communication cooperation and synchronization capabilities and also provide for the behavior specifications of the smart components of the system The book offers not only an introduction to industrial agents but also clarifies and positions the vision on going efforts example applications assessment and roadmap applicable to multiple industries This edited work is guided and co authored by leaders of the IEEE Technical Committee on Industrial Agents who represent both academic and industry perspectives and share the latest research along with their hands on experiences prototyping and deploying industrial agents in industrial scenarios Learn how new scientific approaches and technologies aggregate resources such next generation intelligent systems manual workplaces and information and material flow system Gain insight from experts presenting the latest academic and industry research on multi agent systems Explore multiple case studies and example applications showing industrial agents in a variety of scenarios Understand implementations across the enterprise from low level control systems to autonomous and collaborative management units **Multi-Agent Systems** Rem Collier,Alessandro Ricci,Vivek Nallur,Samuele Burattini,Andrea Omicini,2025-07-21 This book constitutes the refereed proceedings of the 21st European Conference on Multi Agent Systems EUMAS 2024 which took place in Dublin Ireland on August 26 2024 The 24 full papers and 1 short paper included in this book were carefully reviewed and selected from 36 submissions They were organized in topical sections as follows Multi Agent Based Simulation Multi Agent Learning Knowledge Representation Reasoning and Planning Human Agent Interaction Coordination Organisations Institutions Norms and Ethics and Engineering Multi Agent Systems *Advances in Construction ICT and e-Business* Srinath Perera,Bingunath Ingirige,Kirti Ruikar,Esther Obonyo,2017-05-08 This internationally conducted study of the latest construction industry practices addresses a broad range of Information and Communication Technology applications Drawing on research conducted in the US and UK this book presents the state of the art of various ebusiness processes and examines BIM virtual environments and mobile technologies Innovation is a theme that runs throughout this book so in addition to the direct impact of these new technical achievements it also considers the management styles that helped them to emerge Examples from industry are illustrated with case studies and presented alongside research from some of the best known academics in this field This book is essential reading for all advanced students and researchers interested in how ICT is changing construction management and the construction industry

Internet of Things Qusay F. Hassan, Atta ur Rehman Khan, Sajjad A. Madani, 2017-12-15 Internet of Things Challenges Advances and Applications provides a comprehensive introduction to IoT related technologies and common issues in the adoption of IoT on a large scale. It surveys recent technological advances and novel solutions for challenges in the IoT environment. Moreover, it provides detailed discussion of the utilization of IoT and its underlying technologies in critical application areas such as smart grids, healthcare, insurance, and the automotive industry. The chapters of this book are authored by several international researchers and industry experts. This book is composed of 18 self-contained chapters that can be read based on interest. Features: Introduces IoT including its history, common definitions, underlying technologies, and challenges; Discusses technological advances in IoT and implementation considerations; Proposes novel solutions for common implementation issues; Explores critical application domains including large scale electric power distribution networks, smart water and gas grids, healthcare, and e-Health applications, and the insurance and automotive industries. The book is an excellent reference for researchers and post graduate students working in the area of IoT or related areas. It also targets IT professionals interested in gaining deeper knowledge of IoT, its challenges, and application areas. Agents and Multi-Agent Systems: Technologies and Applications 2022 Gordan Jezic, Yun-Heh Jessica Chen-Burger, Mario Kusek, Roman Šperka, Robert J. Howlett, Lakhmi C. Jain, 2022-08-22 The book highlights new trends and challenges in research on agents and the new digital and knowledge economy. It includes papers on business process management, agent based modeling and simulation, and anthropic oriented computing that were originally presented at the 16th International KES Conference on Agents and Multi Agent Systems Technologies and Applications KES AMSTA 2022 held at Rhodes, Greece, in June 20-22, 2022. The respective papers cover topics such as software agents, multi agent systems, agent modeling, mobile and cloud computing, big data analysis, business intelligence, artificial intelligence, social systems, computer embedded systems, and nature inspired manufacturing, all of which contribute to the modern digital economy. **Contextual Process Digitalization** Albert Fleischmann, Stefan Oppl, Werner Schmidt, Christian Stary, 2020-03-30 This open access book presents an overview and step by step explanation of process management. It starts with the individual participants' perspectives on their work in a process and its structuring and harmonization, and then moves on to its specification in a model and how it is embedded in the organizational and IT environment of the company. Lastly, the book examines the joint processing of instances in the resulting socio technical systems. A corresponding illustration which expands with the overview enables readers to gain a comprehensive understanding of business process management. The book presents various facets of business process management from the perspective of the participants and introduces a selection of models that have proved useful in practice. The design of such models supports the transition from a more or less unstructured or unsatisfactory way of working to a structured process that corresponds to the ideas of the company and its customers. The book is intended for professionals in industry as well as students in the field of business information systems who are looking for guidelines on how to discover

create and implement real world processes **Hybrid Artificial Intelligent Systems** Francisco Javier Martínez de Pisón, Rubén Urraca, Héctor Quintián, Emilio Corchado, 2017-06-12 This volume constitutes the refereed proceedings of the 12th International Conference on Hybrid Artificial Intelligent Systems HAIS 2017 held in La Rioja Spain in June 2017 The 60 full papers published in this volume were carefully reviewed and selected from 130 submissions They are organized in the following topical sections data mining knowledge discovery and big data bioinspired models and evolutionary computing learning algorithms visual analysis and advanced data processing techniques data mining applications and hybrid intelligent applications *Artificial Intelligence Applications and Innovations* Ilias Maglogiannis, Lazaros Iliadis, John Macintyre, Markos Avlonitis, Antonios Papaleonidas, 2024-06-20 This book constitutes the refereed proceedings of the 20th IFIP WG 12 5 International Conference on Artificial Intelligence Applications and Innovations AIAI 2024 held in Corfu Greece during June 27 30 2024 The 100 full papers and 8 short papers included in this book were carefully reviewed and selected from 213 submissions The diverse nature of papers presented demonstrates the vitality of AI algorithms and approaches It certainly proves the very wide range of AI applications as well **The VLSI Handbook** Wai-Kai Chen, 2019-07-17 Over the years the fundamentals of VLSI technology have evolved to include a wide range of topics and a broad range of practices To encompass such a vast amount of knowledge The VLSI Handbook focuses on the key concepts models and equations that enable the electrical engineer to analyze design and predict the behavior of very large scale integrated circuits It provides the most up to date information on IC technology you can find Using frequent examples the Handbook stresses the fundamental theory behind professional applications Focusing not only on the traditional design methods it contains all relevant sources of information and tools to assist you in performing your job This includes software databases standards seminars conferences and more The VLSI Handbook answers all your needs in one comprehensive volume at a level that will enlighten and refresh the knowledge of experienced engineers and educate the novice This one source reference keeps you current on new techniques and procedures and serves as a review for standard practice It will be your first choice when looking for a solution **Social Coordination Frameworks for Social Technical Systems** Huib Aldewereld, Olivier Boissier, Virginia Dignum, Pablo Noriega, Julian Padget, 2016-08-16 This book addresses the question of how to achieve social coordination in Socio Cognitive Technical Systems SCTS SCTS are a class of Socio Technical Systems that are complex open systems where several humans and digital entities interact in order to achieve some collective endeavour The book approaches the question from the conceptual background of regulated open multiagent systems with the question being motivated by their design and construction requirements The book captures the collective effort of eight groups from leading research centres and universities each of which has developed a conceptual framework for the design of regulated multiagent systems and most have also developed technological artefacts that support the processes from specification to implementation of that type of systems The first introductory part of the book describes the challenge of developing frameworks for SCTS and articulates

the premises and the main concepts involved in those frameworks The second part discusses the eight frameworks and contrasts their main components The final part maps the new field by discussing the types of activities in which SCTS are likely to be used the features that such uses will exhibit and the challenges that will drive the evolution of this field

Agent-Oriented Software Engineering XIII Jörg Müller, Massimo Cossentino, 2013-08-15 This book constitutes the thoroughly refereed post proceedings of the 13th Agent Oriented Software Engineering AOSE workshop held at the 11th International Conference on Autonomous Agents and Multiagent Systems AAMAS 2012 in Valencia Spain in June 2012 This volume presents 9 thoroughly revised papers selected from 24 submissions as well as two invited articles by leading researchers in the field The papers cover a broad range of topics related to software engineering of agent based systems with particular attention to the integration of concepts and techniques from multi agent systems with recent programming languages platforms and established software engineering methodologies

The ^AOxford Handbook of Computational Economics and Finance Shu-Heng Chen, Mak Kaboudan, Ye-Rong Du, 2018-01-12 This is an insightful survey of approaches to computational analysis of economics and finance

Agent-Oriented Software Engineering VIII Michael Luck, Lin Padgham, 2008-04-29 Software architectures that contain many dynamically interacting components each with its own thread of control engaging in complex coordination protocols are difficult to correctly and efficiently engineer Agent oriented modelling techniques are important for the design and development of such applications This book provides a diverse and interesting overview of the work that is currently being undertaken by a growing number of researchers in the area of Agent Oriented Software Engineering This volume constitutes the thoroughly refereed proceedings of the 8th International Workshop on Agent Oriented Software Engineering AOSE 2007 held in Honolulu Hawaii in May 2007 as part of AAMAS 2007 The 16 revised full papers were carefully selected from numerous submissions during two rounds of reviewing and improvement The volume contains the papers presented at the workshop together with papers resulting from discussions on tools and platforms The papers have been organized into four sections on methodology and processes interacting heterogeneous agents system development issues and tools and case studies

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