


Patrick Brézillon - Avelino Gonzalez
Editors

Context in Computing

A Cross-Disciplinary Approach for
Modeling the Real World

 Springer

Context In Computing A Cross Disciplinary Approach For Modeling The Real World

Patrick Brézillon



Context In Computing A Cross Disciplinary Approach For Modeling The Real World:

Context in Computing Patrick Brézillon, Avelino J. Gonzalez, 2014-12-09 This volume explores how context has been and can be used in computing to model human behaviors actions and communications as well as to manage data and knowledge It addresses context management and exploitation of context for sharing experience across domains The book serves as a user centric guide for readers wishing to develop context based applications as well as an intellectual reference on the concept of context It provides a broad yet deep treatment of context in computing and related areas that depend heavily on computing The coverage is broad because of its cross disciplinary nature but treats topics at a sufficient depth to permit a reader to implement context in his her computational endeavors The volume addresses how context can be integrated in software and systems and how it can be used in a computing environment Furthermore the use of context to represent the human dimension individually as well as collectively is explained Contributions also include descriptions of how context has been represented in formal as well as non formal structured approaches The last section describes several human behavior representation paradigms based on the concept of context as its central representational element The depth and breadth of this content is certain to provide useful as well as intellectually enriching information to readers of diverse backgrounds who have an interest in or are intrigued by using context to assist in their representation of the real world

Modeling and Use of Context in Action Patrick Brézillon, Roy M. Turner, 2022-09-21 This book brings together current research and adopts a pragmatic approach to modeling and using context to solve real world problems The editors were instrumental in creating and continue to be involved in the interdisciplinary research community centered around the biennial CONTEXT International and Interdisciplinary Conference on Modeling and Using Context conference series focused on studying context and its implications for artificial intelligence software applications psychology philosophy linguistics neuroscience as well as other fields The first three chapters lay the foundations looking at the lessons learned over the past 25 years and arguing for a continued shift toward more pragmatic approaches The remaining chapters contain contributions to pragmatic context based research from a wide range of domains including technological problems such as subway incident management and autonomous underwater vehicle control identifying emotions from speech without understanding the words anonymization in a world where privacy is increasingly threatened teaching in context and improving management teaching in a business school

Modeling and Using Context Patrick Brézillon, Roy Turner, Carlo Penco, 2017-06-06 This book constitutes the proceedings of the 10th International and Interdisciplinary Conference on Modeling and Using Context CONTEXT 2017 held in Paris France in June 2017 The 26 full papers and 15 short papers presented were carefully reviewed and selected from 88 submissions The papers feature research in a wide range of disciplines related to issues of context and contextual knowledge and discuss commonalities across and differences between the disciplines approaches to the study of context They are organized in the following topical sections context in representation context modeling of human activities context in

communication context awareness and various specific topics

Research on Modeling and Using Context Over 25

Years Patrick Brézillon, 2023-08-25 This book is the outcome of 25 years of research on how to model and use context in real world applications on a spectrum from technology centered SEPT SART to human centered e.g. FlexMim applications that is from well defined domains to more fuzzy ones. It presents an operational definition of context that initiated a conceptual framework associated with an implementation framework the Contextual Graphs CxG formalism the use of the research for designing a future type of AI systems namely the context based intelligent assistant systems. There is a large international and interdisciplinary community of individuals convinced by the promises of bottom up approaches as an alternative to the current top down approaches in AI mainly Practitioners will discover a tool easy to understand and use Researchers will dispose of a comprehensive conceptual framework facilitating its extension on aspects not yet covered beyond group activity modeling in the realm of the research on AI systems

Information Modelling and Knowledge Bases XXVIII H. Jaakkola, B.

Thalheim, Y. Kiyoki, 2017-01-03 Information modelling and knowledge bases are now essential not only to academics working in computer science but also wherever information technology is applied. This book presents papers from the 26th International Conference on Information Modelling and Knowledge Bases formerly the European Japanese Conference EJC which took place in Tampere Finland in June 2016. The conference provides a platform to bring together researchers and practitioners working with information modelling and knowledge bases and the 33 accepted papers cover topics including conceptual modelling knowledge and information modelling and discovery linguistic modelling cross cultural communication and social computing environmental modelling and engineering and multimedia data modelling and systems. All papers were improved and resubmitted for publication after the conference. Covering state of the art research and practice the book will be of interest to all those whose work involves information modelling and knowledge bases

Information Modelling and Knowledge Bases XXXI A. Dahanayake, J. Huiskonen, Y. Kiyoki, 2020-01-06 Information modeling and knowledge bases have become an important area of academic and industry research in the 21st century addressing complexities of modeling that reach beyond the traditional borders of information systems and academic computer science research. This book presents 32 reviewed selected and updated papers delivered at the 29th International Conference on Information Modeling and Knowledge Bases EJC2019 held in Lappeenranta Finland from 3 to 7 June 2019. In addition two papers based on the keynote presentations and one paper edited from the discussion of the panel session are included in the book. The conference provided a forum to exchange scientific results and experience and attracted academics and practitioners working with information and knowledge. The papers cover a wide range of topics ranging from knowledge discovery through conceptual and linguistic modeling knowledge and information modeling and discovery cross cultural communication and social computing environmental modeling and engineering and multimedia data modeling and systems to complex scientific problem solving. The conference presentation sessions Learning and Linguistics Systems and Processes Data and Knowledge

Representation Models and Interface Formalizations and Reasoning Models and Modeling Machine Learning Models and Programming Environment and Predictions and Emotion Modeling and Social Networks reflect the main themes of the conference The book also includes 2 extended publications of keynote addresses Philosophical Foundations of Conceptual Modeling and Sustainable Solid Waste Management using Life Cycle Modeling for Environmental Impact Assessment as well as additional material covering the discussion and findings of the panel session Providing an overview of current research in the field the book will be of interest to all those working with information systems information modeling and knowledge bases

Intelligent Distributed Computing X Costin Badica, Amal El Fallah Seghrouchni, Aurélie Beynier, David Camacho, Cédric Herpson, Koen Hindriks, Paulo Novais, 2016-10-07 This book presents the combined peer reviewed proceedings of the tenth International Symposium on Intelligent Distributed Computing IDC 2016 which was held in Paris France from October 10th to 12th 2016 The 23 contributions address a range of topics related to theory and application of intelligent distributed computing including Intelligent Distributed Agent Based Systems Ambient Intelligence and Social Networks Computational Sustainability Intelligent Distributed Knowledge Representation and Processing Smart Networks Networked Intelligence and Intelligent Distributed Applications amongst others

Verifiable Autonomous Systems Louise A. Dennis, Michael Fisher, 2023-06-08 How can we provide guarantees of behaviours for autonomous systems such as driverless cars This tutorial text for professionals researchers and graduate students explains how autonomous systems from intelligent robots to driverless cars can be programmed in ways that make them amenable to formal verification The authors review specific definitions applications and the unique future potential of autonomous systems along with their impact on safer decisions and ethical behaviour Topics discussed include the use of rational cognitive agent programming from the Beliefs Desires Intentions paradigm to control autonomous systems and the role model checking in verifying the properties of this decision making component Several case studies concerning both the verification of autonomous systems and extensions to the framework beyond the model checking of agent decision makers are included along with complete tutorials for the use of the freely available verifiable cognitive agent toolkit Gwendolen written in Java

[The Evolution of Pervasive Information Systems](#) Manuele Kirsch Pinheiro, Carine Souveyet, Philippe Roose, Luiz Angelo Steffenel, 2023-01-01 This book covers several aspects related the evolution of Information Systems into Pervasive Information Systems New IT trends have an important impact on IT infrastructures which become increasingly heterogeneous flexible and dynamic These new trends are transforming Information Systems into what we call Pervasive Information Systems The purpose of this book is to combine state of the art solutions from various research communities such as Information Systems Engineering Cloud Computing Fog Edge Computing Pervasive systems Distributed systems and Middleware systems related to the Pervasive Information Systems emergence as a common point of view Through these multiple contributions this book tackles important challenges concerning Information Systems evolution promoting a holistic view of Pervasive Information System Pervasive Information

Systems PIS can be defined as a new class of Information Systems It can be characterized by an IT that is gradually embedded in the physical environment and can accommodate the user s requirements and desires when necessary This evolution implies considering Information Systems beyond the organization s physical environment to integrate new technologies transparently leading to a pervasive environment whose behavior should be more and more reactive proactive It corresponds to an important change in Information Systems Engineering Pervasive Information Systems are deeply multidisciplinary systems demanding a holistic view in which multiple domains are invited to contribute

Context-Aware Communication and Computing: Applications for Smart Environment Punnarumol Temdee,Ramjee Prasad,2017-06-29

This book introduces context aware computing providing definitions categories characteristics and context awareness itself and discussing its applications with a particular focus on smart learning environments It also examines the elements of a context aware system including acquisition modelling reasoning and distribution of context It also reviews applications of context aware computing both past and present to offer readers the knowledge needed to critically analyse how context awareness can be put to use It is particularly to those new to the subject area who are interested in learning how to develop context aware computing oriented applications as well as postgraduates and researchers in computer engineering communications engineering related areas of information technology IT Further it provides practical know how for professionals working in IT support and technology consultants and business decision makers and those working in the medical human and social sciences

Declarative Logic Programming Michael Kifer,Yanhong Annie Liu,2018-09-19 The idea of this book grew out of a symposium that was held at Stony Brook in September 2012 in celebration of David S Warren s fundamental contributions to Computer Science and the area of Logic Programming in particular Logic Programming LP is at the nexus of Knowledge Representation Artificial Intelligence Mathematical Logic Databases and Programming Languages It is fascinating and intellectually stimulating due to the fundamental interplay among theory systems and applications brought about by logic Logic programs are more declarative in the sense that they strive to be logical specifications of what to do rather than how to do it and thus they are high level and easier to understand and maintain Yet without being given an actual algorithm LP systems implement the logical specifications automatically Several books cover the basics of LP but focus mostly on the Prolog language with its incomplete control strategy and non logical features At the same time there is generally a lack of accessible yet comprehensive collections of articles covering the key aspects in declarative LP These aspects include among others well founded vs stable model semantics for negation constraints object oriented LP updates probabilistic LP and evaluation methods including top down vs bottom up and tabling For systems the situation is even less satisfactory lacking accessible literature that can help train the new crop of developers practitioners and researchers There are a few guides on Warren s Abstract Machine WAM which underlies most implementations of Prolog but very little exists on what is needed for constructing a state of the art declarative LP inference engine Contrast this with the literature on say

Compilers where one can first study a book on the general principles and algorithms and then dive in the particulars of a specific compiler Such resources greatly facilitate the ability to start making meaningful contributions quickly There is also a dearth of articles about systems that support truly declarative languages especially those that tie into first order logic mathematical programming and constraint solving LP helps solve challenging problems in a wide range of application areas but in depth analysis of their connection with LP language abstractions and LP implementation methods is lacking Also rare are surveys of challenging application areas of LP such as Bioinformatics Natural Language Processing Verification and Planning The goal of this book is to help fill in the previously mentioned void in the LP literature It offers a number of overviews on key aspects of LP that are suitable for researchers and practitioners as well as graduate students The following chapters in theory systems and applications of LP are included

Fuzzy Systems Constantin Volosencu, 2022-01-12 This book presents some recent specialized works of theoretical study in the domain of fuzzy systems Over eight sections and fifteen chapters the volume addresses fuzzy systems concepts and promotes them in practical applications in the following thematic areas fuzzy mathematics decision making clustering adaptive neural fuzzy inference systems control systems process monitoring green infrastructure and medicine The studies published in the book develop new theoretical concepts that improve the properties and performances of fuzzy systems This book is a useful resource for specialists engineers professors and students

Formal Ontology in Information Systems R. Ferrario, W. Kuhn, 2016-07-06 Ontology originally a fundamental part of philosophical enquiry is concerned with the analysis and categorization of what exists The advent of complex information systems which rely on robust and coherent formal representations of their subject matter has led to a renewed focus on ontological enquiry and the systematic study of such representations are at the center of the modern discipline of formal ontology This is now a research focus in domains as diverse as conceptual modeling database design software engineering artificial intelligence computational linguistics the life sciences bioinformatics geographic information science knowledge engineering information retrieval and the semantic web This book presents the proceedings of the 9th edition of the Formal Ontology in Information Systems conference FOIS 2016 held in Annecy France in July 2016 It contains the 25 full papers delivered at the conference an acceptance rate of 30.9% for the main track as well as the abstracts of the 3 keynotes by Gilberto C. Mara, Stephen Mumford and Friederike Moltmann The remainder of the book is divided into the sections Foundations Space Time and Change Cognition Language and Semantics Empiricism and Measurement Ontology for Engineering Biomedical Ontologies and Ontology of Social Reality The domains addressed by the papers include geography biomedicine economics social reality and engineering and the book will be of interest to all those working in these fields as well as to anybody with an interest in formal ontology

Ubiquitous Computing and Ambient Intelligence Carmelo R. García, Pino Caballero-Gil, Mike Burmester, Alexis Quesada-Arencia, 2016-11-18 This LNCS double volume LNCS 10069 10070 constitutes the refereed proceedings of the 10th International Conference on Ubiquitous Computing and Ambient

Intelligence UCAmI 2016 which includes the International Work Conference on Ambient Assisted Living IWAAL and the International Conference on Ambient Intelligence for Health AmiHEALTH held in Las Palmas de Gran Canaria Spain in November December 2016 The 69 full papers presented together with 40 short papers and 5 doctoral consortium papers were carefully reviewed and selected from 145 submissions UCAmI 2016 is focused on research topics related to ambient assisted living internet of things smart cities ambient intelligence for health human computer interaction ad hoc and sensor networks and security div

Resource Management for Internet of Things Flávia C. Delicato, Paulo F. Pires, Thais Batista, 2017-03-30 This book investigates the pressing issue of resource management for Internet of Things IoT The unique IoT ecosystem poses new challenges and calls for unique and bespoke solutions to deal with these challenges Using a holistic approach the authors present a thorough study into the allocation of the resources available within IoT systems to accommodate application requirements This is done by investigating different functionalities and architectural approaches involved in a basic workflow for managing the lifecycle of resources in an IoT system Resource Management for the Internet of Things will be of interest to researchers and students as well as professional developers interested in studying the IoT paradigm from data acquisition to the delivery of value added services for the end user

What Social Robots Can and Should Do J. Seibt, M. Nørskov, S. Schack Andersen, 2016-10-14 Social robotics drives a technological revolution of possibly unprecedented disruptive potential both at the socio economic and the socio cultural level The rapid development of the robotics market calls for a concerted effort across a wide spectrum of academic disciplines to understand the transformative potential of human robot interaction This effort cannot succeed without the special expertise in the study of socio cultural interactions norms and values that humanities research provides This book contains the proceedings of the conference What Social Robots Can and Should Do Robophilosophy 2016 TRANSOR 2016 held in Aarhus Denmark in October 2016 The conference is the second event in the biennial Robophilosophy conference series this time combined with an event of the Research Network for Transdisciplinary Studies in Social Robotics TRANSOR Featuring 13 plenaries and 74 session and workshop talks the event turned out to be the world's largest conference in Humanities research in and on social robotics The book is divided into 3 sections Part I and Part III contain the abstracts of plenary lectures and contributions to 6 workshops Artificial Empathy Co Designing Children Robot Interaction Human Robot Joint Action Phronesis for Machine Ethics Robots in the Wild and Responsible Robotics Part II contains short papers for presentations in 7 thematically organized sessions methodological issues ethical tasks and implications emotions in human robot interactions education art and innovation artificial meaning and rationality social norms and robot sociality and perceptions of social robots The book will be of interest to researchers in philosophy anthropology sociology psychology linguistics cognitive science robotics computer science and art Since all contributions are prepared for an interdisciplinary readership they are highly accessible and will be of interest to policy makers and educators who wish to gauge the challenges and potentials of putting robots in

society DeepAesthetics Anna Munster,2025-03-31 Computation has now been reconfigured by machine learning those technical processes and operations that yoke together statistics and computer science to create artificial intelligence AI by furnishing vast datasets to learn tasks and predict outcomes In DeepAesthetics Anna Munster examines the range of more than human experiences this transformation has engendered and considers how those experiences can be qualitative as well as quantitative Drawing on process philosophy Munster approaches computational experience through its relations and operations She combines deep learning the subfield of machine learning that uses neural network architectures and aesthetics to offer a way to understand the insensible and frequently imperceptible forms of nonlinear and continuously modulating statistical function Attending to the domains and operations of image production statistical racialization AI conversational agents and critical AI art Munster analyzes how machine learning is operationally entangled with racialized neurotypical and cognitivist modes of producing knowledge and experience She approaches machine learning as events through which a different sensibility registers one in which AI is populated by oddness disjunctions and surprises and where artful engagement with machine learning fosters indeterminate futures *Context-Aware Systems and Applications, and Nature of Computation and Communication* Phan Cong Vinh,Vangalur Alagar,2018-12-29 This book constitutes the refereed post conference proceedings of the International Conferences ICCASA and ICTCC 2018 held in November 2018 in Viet Tri City Vietnam The 20 revised full papers presented were carefully selected from 30 submissions The papers of ICCASA cover a wide spectrum in the area of context aware systems CAS is characterized by its self facets such as self organization self configuration self healing self optimization self protection used to dynamically control computing and networking functions The papers of ICTCC cover formal methods for self adaptive systems and discuss natural approaches and techniques for computation and communication *Handbook of Intelligent Automation Systems Using Computer Vision and Artificial Intelligence* Rupali Gill,Susheela Hooda,Durgesh Srivastava,Shilpi Harnal,2025-09-03 The book is essential for anyone seeking to understand and leverage the transformative power of intelligent automation technologies providing crucial insights into current trends challenges and effective solutions that can significantly enhance operational efficiency and decision making within organizations Intelligent automation systems also called cognitive automation use automation technologies such as artificial intelligence business process management and robotic process automation to streamline and scale decision making across organizations Intelligent automation simplifies processes frees up resources improves operational efficiencies and has a variety of applications Intelligent automation systems aim to reduce costs by augmenting the workforce and improving productivity and accuracy through consistent processes and approaches which enhance quality improve customer experience and address compliance and regulations with confidence Handbook of Intelligent Automation Systems Using Computer Vision and Artificial Intelligence explores the significant role current trends challenges and potential solutions to existing challenges in the field of intelligent automation systems making it an invaluable guide for

researchers industry professionals and students looking to apply these innovative technologies Readers will find the volume Offers comprehensive coverage on intelligent automation systems using computer vision and AI covering everything from foundational concepts to real world applications and ethical considerations Provides actionable knowledge with case studies and best practices for intelligent automation systems computer vision and AI Explores the integration of various techniques including facial recognition natural language processing neuroscience and neuromarketing Audience The book is designed for AI and data scientists software developers and engineers in industry and academia as well as business leaders and entrepreneurs who are interested in the applications of intelligent automation systems Unleashing the Startup Unicorn Vivek Kale, 2024-01-30 It is well known that high tech startups need to innovate to survive yet the failure rate for innovation is shockingly high Nearly three out of four new products or services i e their startups miss their revenue and profit goals or fail entirely It s a misconception that high tech startups fail only because of the failing products or finances The failures could also be because of erroneous choice of technology platforms development teams or methodology or even the project execution Accordingly this book takes a holistic view of a startups aesthetics that enables it to become attractive for all stakeholders especially investors in all aspects of its operations at all stages of its lifecycle This book Looks at aspects of venture capital financing and what investors look for in a contemporary startup Shows how only an overarching aspiration for a startup to become a Unicorn is sufficient to explain the typical characteristics of legendry Silicon Valley Unicorns like Google Facebook LinkedIn and Twitter Covers major application areas of current future interest namely intelligent systems intelligent assistants wireless sensor networks Internet of Things IoT and blockchain systems Introduces the contemporary skills set in demand for Startups To succinctly cover all aspects of a contemporary startup Unleashing the Startup Unicorn is organized to reflect the natural grouping of competencies that are essential for entrepreneurial ventures from conception to successful exit To understand and analyze these competencies the book uses an extended 9S model inspired by the pioneering McKinsey 7S model

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