

Qualitative Temporal Representation and Reasoning about Points, Intervals and Durations

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Abstract

Recently, an elegant framework called $\mathcal{N}^2\mathcal{TL}$ [8] has been proposed for representing qualitative information about time intervals and durations. $\mathcal{N}^2\mathcal{TL}$ is a single network, therefore it avoids typical problems of bi-networks, and in addition it has interesting computational properties. In this paper, we extend $\mathcal{N}^2\mathcal{TL}$ in two directions: we enrich its expressive power by introducing points and introducing the same computational properties, and we provide it with an automatic theory able to handle qualitative temporal information about points, intervals and durations in a unified framework. This theory is based on general interval axioms and two relations: general meets and not longer than.

1. Introduction

In many domains, it is more important to consider the relative information concerning the durations of two temporal intervals instead of considering the absolute knowledge about a single interval. If durations are taken as distances between endpoints of intervals then qualitative constraints as "the duration of the interval I is shorter than the duration of the interval J " cannot be represented in a binary constraint network since they concern four points. This problem is usually overcome encoding duration information in a network orthogonal to the interval relationship network, but this strategy presents some limits. In the IA framework [1] it does not guarantee the total consistency

of the network [7]. In the same line, there are other bi-network based works proposed for representing information about durations: PDM [17] and APDM [12]. PDM is a point duration network defined as a structure formed by two point algebra networks, separately but not independently, as binary constraints are introduced for relating point and duration information. APDM extends PDM where only qualitative information is considered, by representing both qualitative and quantitative information about point events. Like other point-based approaches, they do not handle the disjointness of interval algebras.

The PDM framework [9] considers a single network able to handle both qualitative and quantitative temporal information about points, intervals and durations, but its high expressive power is achieved at the price of its computational properties.

Recently, an elegant subframework of PDM called $\mathcal{N}^2\mathcal{TL}$ [3] has been proposed. $\mathcal{N}^2\mathcal{TL}$ represents only qualitative information about time intervals and durations and it has interesting computational properties. The set of interval relations considered is an extension of 13 Allen's relations [1] integrated with qualitative information about durations [$<$, =, $>$]. For example, the relation k is extended to the three relations $\{k^<, k^=, k^>\}$, while other relations such as $\{rc, s, al, d, ds, f, fi\}$ which include implicit information about interval durations, are left unchanged. Thus, 25 basic relations between pairs of intervals are considered. The $\mathcal{N}^2\mathcal{TL}$ network exhibits similar characteristics as the IA-network concerning tractable subclasses (Consistent as well as Pre-consistent). But the level of local consistency to achieve global consistency is θ -consistency [6]

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Eighth International Symposium on Temporal Representation and Reasoning (TIME'01), Cividale Del Friuli, Italy,

14.06-16.06.2001 ,20?? **Eighth International Symposium on Temporal Representation and Reasoning** ,2002

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Ghosh,2006-04-01 The Sixth SIAM International Conference on Data Mining continues the tradition of presenting approaches tools and systems for data mining in fields such as science engineering industrial processes healthcare and medicine The datasets in these fields are large complex and often noisy Extracting knowledge requires the use of sophisticated high performance and principled analysis techniques and algorithms based on sound statistical foundations These techniques in turn require powerful visualization technologies implementations that must be carefully tuned for performance software systems that are usable by scientists engineers and physicians as well as researchers and infrastructures that support them

Eighth International Symposium on Temporal Representation and Reasoning Claudio Bettini,Angelo

Montanari,2001 Three invited 17 regular and 13 short papers reveal how current debates and time and temporal reasoning are playing out in computer science and artificial intelligence circles The invited papers introducing the three sessions cover cellular ontology as a basis for spatiotemporal reasoning recent achievements and opportunities in spatiotemporal databases and representing periodic temporal information with automata Other topics include the event calculus assessed discovering calendar based temporal association rules and checking linear temporal formulas on sequential recursive Petri nets There is no subject index c Book News Inc **Index of Conference Proceedings** British Library. Document Supply Centre,2002

, Computational Collective Intelligence Ngoc-Thanh Nguyen,Lazaros Iliadis,Yannis Manolopoulos,Bogdan

Trawiński,2016-09-19 This two volume set LNAI 9875 and LNAI 9876 constitutes the refereed proceedings of the 8th International Conference on Collective Intelligence ICCCI 2016 held in Halkidiki Greece in September 2016 The 108 full papers presented were carefully reviewed and selected from 277 submissions The aim of this conference is to provide an internationally respected forum for scientific research in the computer based methods of collective intelligence and their applications in but not limited to such fields as group decision making consensus computing knowledge integration semantic web social networks and multi agent systems **Time Expression and Named Entity Recognition** Xiaoshi Zhong,Erik

Cambria,2021-08-23 This book presents a synthetic analysis about the characteristics of time expressions and named entities and some proposed methods for leveraging these characteristics to recognize time expressions and named entities from unstructured text For modeling these two kinds of entities the authors propose a rule based method that introduces an abstracted layer between the specific words and the rules and two learning based methods that define a new type of tagging scheme based on the constituents of the entities different from conventional position based tagging schemes that cause the problem of inconsistent tag assignment The authors also find that the length frequency of entities follows a family of power

law distributions This finding opens a door complementary to the rank frequency of words to understand our communicative system in terms of language use

Advances in Databases and Information Systems Yannis Manolopoulos,Pavol Navrat,2003-08-02 This book constitutes the refereed proceedings of the 6th East European Conference on Advances in Databases and Information Systems ADBIS 2002 held in Bratislava Slovakia in September 2002 The 25 revised full papers and 4 short papers presented together with 3 invited papers were carefully reviewed and selected from 115 submissions The papers are organized in topical sections on data mining and knowledge discovery mobile databases spatiotemporal and spatial databases multidimensional databases and information systems object oriented and deductive databases data modeling and workflows Web databases and semistructured data and advanced systems and applications

Big Data in Emergency Management: Exploitation Techniques for Social and Mobile Data Rajendra Akerkar,2020-09-14 This contributed volume discusses essential topics and the fundamentals for Big Data Emergency Management and primarily focusses on the application of Big Data for Emergency Management It walks the reader through the state of the art in different facets of the big disaster data field This includes many elements that are important for these technologies to have real world impact This book brings together different computational techniques from machine learning communication network analysis natural language processing knowledge graphs data mining and information visualization aiming at methods that are typically used for processing big emergency data This book also provides authoritative insights and highlights valuable lessons by distinguished authors who are leaders in this field Emergencies are severe large scale non routine events that disrupt the normal functioning of a community or a society causing widespread and overwhelming losses and impacts Emergency Management is the process of planning and taking actions to minimize the social and physical impact of emergencies and reduces the community s vulnerability to the consequences of emergencies Information exchange before during and after the disaster periods can greatly reduce the losses caused by the emergency This allows people to make better use of the available resources such as relief materials and medical supplies It also provides a channel through which reports on casualties and losses in each affected area can be delivered expeditiously Big Data Driven Emergency Management refers to applying advanced data collection and analysis technologies to achieve more effective and responsive decision making during emergencies Researchers engineers and computer scientists working in Big Data Emergency Management who need to deal with large and complex sets of data will want to purchase this book Advanced level students interested in data driven emergency crisis disaster management will also want to purchase this book as a study guide

Coordination, Organizations, Institutions, and Norms in Agent Systems II Pablo Noriega,Javier Vázquez-Salceda,Guido Boella,Olivier Boissier,Virginia Dignum,Nicoletta Fornara,Eric T Matson,2007-08-17 This book constitutes the thoroughly refereed post proceedings of the International Workshop on Coordination Organization Institutions and Norms in Agent Systems COIN 2006 held as two events at AAMAS 2006 the 5th International Joint

Conference on Autonomous Agents and Multiagent Systems in Hakodate Japan and ECAI 2006 the 17th European Conference on Artificial Intelligence in Riva del Garda Italy **Johan van Benthem on Logic and Information Dynamics** Alexandru Baltag, Sonja Smets, 2014-08-27 This book illustrates the program of Logical Informational Dynamics Rational agents exploit the information available in the world in delicate ways adopt a wide range of epistemic attitudes and in that process constantly change the world itself Logical Informational Dynamics is about logical systems putting such activities at center stage focusing on the events by which we acquire information and change attitudes Its contributions show many current logics of information and change at work often in multi agent settings where social behavior is essential and often stressing Johan van Benthem's pioneering work in establishing this program However this is not a Festschrift but a rich tapestry for a field with a wealth of strands of its own The reader will see the state of the art in such topics as information update belief change preference learning over time and strategic interaction in games Moreover no tight boundary has been enforced and some chapters add more general mathematical or philosophical foundations or links to current trends in computer science The theme of this book lies at the interface of many disciplines Logic is the main methodology but the various chapters cross easily between mathematics computer science philosophy linguistics cognitive and social sciences while also ranging from pure theory to empirical work Accordingly the authors of this book represent a wide variety of original thinkers from different research communities And their interconnected themes challenge at the same time how we think of logic philosophy and computation Thus very much in line with van Benthem's work over many decades the volume shows how all these disciplines form a natural unity in the perspective of dynamic logicians broadly conceived exploring their new themes today And at the same time in doing so it offers a broader conception of logic with a certain grandeur moving its horizons beyond the traditional study of consequence relations **Adaptive Semantics Visualization** Kawa Nazemi, 2016-03-22 This book introduces a novel approach for intelligent visualizations that adapts the different visual variables and data processing to human's behavior and given tasks Thereby a number of new algorithms and methods are introduced to satisfy the human need of information and knowledge and enable a usable and attractive way of information acquisition Each method and algorithm is illustrated in a replicable way to enable the reproduction of the entire SemaVis system or parts of it The introduced evaluation is scientifically well designed and performed with more than enough participants to validate the benefits of the methods Beside the introduced new approaches and algorithms readers may find a sophisticated literature review in Information Visualization and Visual Analytics Semantics and information extraction and intelligent and adaptive systems This book is based on an awarded and distinguished doctoral thesis in computer science **Clinical Knowledge Management** Rajeev K. Bali, 2005-01-01 This book establishes a convergence in thinking between knowledge management and knowledge engineering healthcare applications Provided by publisher Agents and Artificial Intelligence Béatrice Duval, Jaap van den Herik, Stephane Loiseau, Joaquim Filipe, 2015-09-24 This book constitutes the

thoroughly refereed post conference proceedings of the 6th International Conference on Agents and Artificial Intelligence ICAART 2014 held in Angers France in March 2014 The 21 revised full papers presented together with one invited paper were carefully reviewed and selected from 225 submissions The papers are organized in two topical sections on agents and on artificial intelligence *The Language of Time* Inderjeet Mani,James Pustejovsky,Robert Gaizauskas,2005 Table of contents Enterprise, Business-Process and Information Systems Modeling Han van der Aa,Dominik Bork,Henderik A. Proper,Rainer Schmidt,2023-05-30 This book contains the refereed proceedings of two long running events held along with the CAiSE conference relating to the areas of enterprise business process and information systems modeling the 24th International Conference on Business Process Modeling Development and Support BPMDS 2023 and the 28th International Conference on Exploring Modeling Methods for Systems Analysis and Development EMMSAD 2023 The conferences were taking place in Zaragoza Spain during June 12 13 2023 For BPMDS 9 full papers and 2 short papers were carefully reviewed and selected for publication from a total of 26 submissions for EMMSAD 9 full papers and 3 short papers were accepted from 26 submissions after thorough reviews The BPMDS papers deal with a broad range of theoretical and applications based research in business process modeling development and support EMMSAD focusses on modeling methods for systems analysis and development **Logics in Artificial Intelligence** Michael Fisher,Wiebe van der Hoek,Boris Konev,Alexei Lisitsa,2006-09-14 This book constitutes the refereed proceedings of the 10th European Conference on Logics in Artificial Intelligence JELIA 2006 The 34 revised full papers and 12 revised tool description papers presented together with 3 invited talks were carefully reviewed and selected from 96 submissions The papers cover a range of topics within the remit of the Conference such as logic programming description logics non monotonic reasoning agent theories automated reasoning and machine learning Perception-based Data Mining and Decision Making in Economics and Finance Ildar Batyrshin,Leonid Sheremetov,Lofti A. Zadeh,2007-04-05 The primary goal of this book is to present to the scientific and management communities a selection of applications using more recent Soft Computing SC and Computing with Words and Perceptions CWP models and techniques meant to solve the economics and financial problems The selected examples could also serve as a starting point or as an opening out in the SC and CWP techniques application to a wider range of problems in economics and finance Decision making in the present world is becoming more and more sophisticated time consuming and difficult for human beings who require more and more computational support This book addresses the significant increase on research and applications of Soft Computing and Computing with Words and Perceptions for decision making in Economics and Finance in recent years Decision making is heavily based on information and knowledge usually extracted from the analysis of large amounts of data Data mining techniques enabled with the capability to integrate human experience could be used for a more realistic business decision support Computing with Words and Perceptions introduced by Lotfi Zadeh can serve as a basis for such extension of traditional data mining and decision making systems Fuzzy logic as a main constituent of CWP

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