

Qualitative Temporal Representation and Reasoning about Points, Intervals and Durations

Silvana Radaloni
University of Padova
Dept. of Electronics and Computer Science
Via Gradenigo 6A - 35100 Padova - Italy
radaloni@ladsch.upd.it

Massimiliano Giacomini
University of Brescia
Dept. of Electronics and Automation
Via Branze 38 - 25123 Brescia - Italy
giacomini@ing.unibs.it

Claudio Masolo
University of Padova
Dept. of Electronics and Computer Science
Via Gradenigo 6A - 35100 Padova - Italy
masolo@ladsch.upd.it

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 including 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 $\mathcal{IA}$ framework [1] it does not guarantee the total consistency

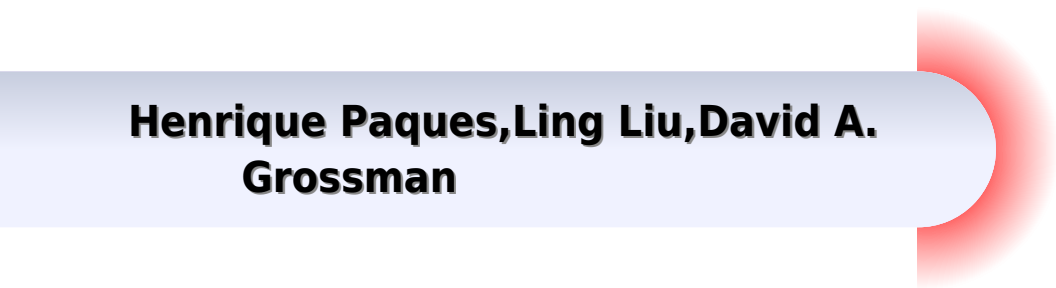
of the network [7]. In the same line, there are other bi-network based works proposed for representing information about durations: $\mathcal{PDN}$ [2] and $\mathcal{APDN}$ [12]. $\mathcal{PDN}$ is a point duration network defined as a structure formed by two point algebra networks, separately but not independently, as binary constraints are introduced for relating point and duration information. $\mathcal{APDN}$ extends $\mathcal{PDN}$ 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 $\mathcal{PIDN}$ 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 $\mathcal{PIDN}$ called $\mathcal{N}^2\mathcal{TV} [3]$ has been proposed. $\mathcal{N}^2\mathcal{TV}$ 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 $\{rc, s, st, d, dt, f, fi\}$ which include implicit information about interval durations, are left unchanged. Thus, 25 basic relations between pairs of intervals are considered. The $\mathcal{N}^2\mathcal{TV}$ network exhibits similar characteristics as the $\mathcal{IA}$ -network concerning tractable subclasses ($\mathcal{C}ommet$ as well as $\mathcal{P}ro-commet$), but the level of local consistency to achieve global consistency is $\mathcal{B}$ -consistency [4].

Temporal Representation And Reasoning Time 2001 Proceedings

**Henrique Paques, Ling Liu, David A.
Grossman**



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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 TIME 2001 ,2001 **Proceedings of the Sixth SIAM International Conference on Data Mining** Joydeep 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

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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

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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

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