

Qualitative Temporal Representation and Reasoning about Points, Intervals and Durations

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Abstract

Recently, an elegant framework called $\mathcal{N}^2\mathcal{DTM}$ [8] has been proposed for representing qualitative information about time intervals and durations. $\mathcal{N}^2\mathcal{DTM}$ 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 $\mathcal{N}^2\mathcal{DTM}$ 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: PDN [7] and APDN [12]. 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. APDN extends 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 PION 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 PION called $\mathcal{N}^2\mathcal{DTM}$ [8] has been proposed. $\mathcal{N}^2\mathcal{DTM}$ 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 $\{k^+, k^-, k^0\}$, while other relations such as $\{rc, s, al, d, di, f, fi\}$ which include implicit information about interval durations, are left unchanged. Thus, 25 basic relations between pairs of intervals are considered. The $\mathcal{N}^2\mathcal{DTM}$ 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]

Temporal Representation And Reasoning Time 2001 Proceedings

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

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Supply Centre,2002 **Advances in Databases and Information Systems** Yannis Manolopoulos,Pavol Navrat,2003-08-02

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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

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

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