

Qualitative Temporal Representation and Reasoning about Points, Intervals and Durations

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Abstract

Recently, an elegant framework called 3-ATD¹ [16] has been proposed for representing qualitative information about time intervals and durations. 3-ATD is a single network, therefore it avoids typical problems of bi-networks, used in addition to time representing computational properties. In this paper, we extend 3-ATD in two directions: we enrich its expressive power distinguishing points and intervals, by the same computational properties, and we provide it with an axiomatic theory able to handle qualitative temporal information about points, intervals and durations in a unified framework. This theory is based on general temporal relations and their relatives: general metrics and not longer things.

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 temporal order: 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 intervals in a network orthogonal to the temporal relationship network, but this strategy presents some limits. In the 3A framework [11] it does not guarantee the total consistency

of the network [17]. In the same line, there are other bi-network based works proposed for representing information about durations: PDDN [14] and AFDN [12]. PDDN is a point-duration network defined as a network based by two point-algebra networks, separately but not independently, as binary constraints are introduced for relating points and duration information. AFDN extends PDDN without only qualitative information is considered, by integrating both qualitative and quantitative information about point events. Like other point-based approaches, they do not handle the disjunctions of interval algebra.

The PDDN framework [14] 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 PDDN called 3-ATD¹ [16] has been proposed. 3-ATD 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 $\<$ is extended to the three relations $\{<, \leq, >\}$, while others relations such as $\{ne, s, se, sd, f, ff\}$ which encode temporal information about interval durations, are left unchanged. These 20 basic relations between pairs of intervals are considered. The 3-ATD network exhibits similar characteristics as the 1A-network concerning tractable applications (Comics as well as Prolog query). But the local self-consistency is sufficient guarantee the total consistency

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