#### Qualitative Temporal Representation and Reasoning about Points, Intervals and Durutions

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#### Abstract

Recordly, an elegant framework collect 2.N°TH [R] has been proposed for representing qualitative information about the branchis and danations. 2.N°TH is a single network, therefore it would treduce problems of bi-memoritation in addition it has betweeting computational proporties, in this paper, we extend 3.N°TH in these directions: we arrich its expressive power barrothering powers and mandalizate some computational proporties, and n a provide it with an automatic theory able to bundle qualitative temporal information about points, internate and elevations in a suifact framework. This strong is based on general interval antitive and two relations: general weeks and not longer than.

#### 1. Introduction

In many domains, it is more important to counsider the relative information concerning the densities of two best-poral fractions increased of considering the absolute formativity about a timely interval. If therefore are about as discussed between ending the interval. If the storm qualitative occurants is the density of the bosons I is shown than the above of the interval I' cannot be represented in a binary constraint maintaint along the interval in a binary constraint maintaint them they consum from painties. This position is consily overcome encoding densities informations in a necessoric order parents some finite. In the IA framework, but this strategy presents some finite. In the IA framework, I if it does not guarantee the total constitutions.

of the network [7]. In the same like, there are other hisretwork based works proposed for representing informaries about densitions. FDN [7] and APDN [72]. PDN is a point duration setwork to band as a structure transaction for point algebra mercents, separately but not independently, as terrany constraints are introduced for relating print and duration information. APDN colonds PDN where only qualitative information is outsidened, by organizating both qualirative and quantitative information about point events. Like other point-based approaches, they do not bondle the disinitiatedness of interval algebra.

The PIDN framework [9] considers a simple network able to handle both qualitative and quantitative temporal informations about points. Intervals and distribute, but its high expressive power is achieved at the price of its comprestional properties.

Stormothy, an elegant subfrancework of PEDN collect ZNTYX 31 has been proposed. ZNTXX represents only qualitative infrancation shows them there intervals and describes and it has intervaling companional proportion. The act of interval relations (1) integrated with qualitative anisometical about describes (1) integrated with qualitative anisometical about describes (1) integrated with qualitative anisometical about themselves (1, m, > ). For example, the relation to its unbended to the three criminum (6°, 6°, 6°), while other relations soot, as {eq. s. el. d. dl. f, f, f} vehicls include implicit information about interval therefore, are left unchanged. Then Z back relations between paint of uncovaried are considered. The Z A SM measure, enhabite similar characteristics as the LA-exposure concerning treatable splictances (Common as well as Pro-converse). But the level of local consistency to arbitrar global occuliatory is 4-consistency to

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**Joydeep Ghosh** 

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algorithms and techniques described in other references **WEBKDD 2002 - Mining Web Data for Discovering Usage Patterns and Profiles** Osmar Zaïane,2003-10-13 This book constitutes the thoroughly refereed post proceedings of the 4th International Workshop on Mining Web Data WEBKDD 2002 held in Edmonton Canada in July 2002 The 10 revised full papers presented together with a detailed preface went through two rounds of reviewing and improvement and were selected from 23 submissions The papers are organized in topical sections on categorization of users and usage prediction and recommendation and evaluation of algorithms

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