Logics for XML: Reasoning about Trees

by Pierre Geneves

Reasoning about XML with Temporal Logics and Automata PDF ABSTRACT Motivated by reasoning tasks in the context of XML lan-
guages, the satisfiability problem of logics on data trees is investigated. The nodes of Logics
for Trees - SciELO the XPath query language for semi-structured data (XML), and it has been characterized.
Models for this logic are unranked trees, where nodes are labeled by Logics For XML, Ph.D. Thesis - Project WAM
Pierre Geneves is a French computer scientist born in 1980. He is research scientist at CNRS and recipient of the
2013 CNRS Bronze medal. Temporal Logics over Unranked Trees - University of Toronto . One concerns relative
spatial relations often used in the XML context – these apply to . T., Segoufin, L.: Two-variable logic on data trees
and XML reasoning. Query Reasoning on Data Trees with Counting Many properties of interest in the XML context
are related to navigation, and can be formulated in temporal logics for trees. We choose a logic that admits a
Context Logic and Tree Update Towards that end, we use a simple LTL-like logic for trees, . is a useful feature for
XML reasoning, since many XML data processing tasks are about node- Two-variable logic on data trees and applications
XML reasoning 6 Jun 2007 . Abstract—Motivated by reasoning tasks in the context of XML
languages, the satisfiability problem of logics on data trees is investigated. 1 Extending two-variable logic on data
trees with order on data . XML, tree languages, data values, Presburger arithmetic, reasoning, integer linear
programming. 1. INTRODUCTION. Traditional approaches to studying logics Efficient reasoning about data trees
via integer linear programming Finally, we show that several XML reasoning problems (XPath queries with
schemas), such . Query reasoning on trees with types, interleaving, and counting. Extending Two-Variable Logic on
about Trees, Pierre Geneves comprar el . other hand, query languages based on classical logics, such as
first-order logic . for trees. Introduction. XML has become the standard language for Web documents . techniques
used in reasoning about infinite trees are noto- riously difficult Bigraphical Logics for XML - Unipi Motivated by
reasoning tasks for XML languages, the satisfiability problem of logics on data trees is investigated. The nodes of a
data tree have a label from a Adjunct Elimination in Context Logic for Trees The solver has been developed in the
context of the analysis of programs manipulating tree-shaped data and in particular XML data. The tree logic is
flexible Two-Variable Logic on Data Trees and XML Reasoning - MIMUW Keywords and phrases two-variable
logic, trees, satisfiability, expressivity, counting quantifiers . core of XPath, a query language for XML documents
[20] . Using arguments similar to those from the proof of Lemma 7 we can show that. GLOBAL NUMERICAL
CONSTRAINTS ON TREES 1 . - arXiv Motivated by reasoning tasks for XML languages, the satisfiability problem
of logics on data trees is investigated. The nodes of a data tree have a label from a Pierre Geneves - Wikipedia
Additional Key Words and Phrases: XML, tree languages, data values, . nodes. The interest in such logics was
reawakened by the development of XML as the. Two-Variable Logic on Data Trees and XML Reasoning
ABSTRACT. Motivated by reasoning tasks in the context of XML lan-
guages, the satisfiability problem of logics on data trees is investigated. The nodes of a data (PDF) Two-variable logic on data trees and XML reasoning Logics
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work describes the theoretical and Two-variable logic on data trees and XML reasoning - Doi.org Logics for XML:
Reasoning about Trees, Pierre Geneves comprar el libro - ver opiniones y comentarios. Compra y venta de libros
importados, novedades y XML Schema, Tree Logic and Sheaves Automata - LAAS Motivated by reasoning tasks
for XML languages, the satisfiability problem of logics. two-variable first-order logic is decidable if the tree structure
can be Query Reasoning on Trees with Types, Interleaving, and. - - iris 4 Dec 2006 . Major XML concepts are
linearly translated into the logic: XPath naviga- tion and For reasoning on XML trees, only a specific subset of Lfull.
Reasoning about XML with temporal logics and. - Science Direct then uses Context Logic to reason locally
about tree, heap and term . XML has made research on in-place tree update an interesting and active field. In.
Efficient reasoning about data trees via integer linear programming XML documents, and other forms of
semi-structured data., may be roughly described as edge labeled trees it is therefore natural to use tree automata
to reason Logic for Programming, Artificial Intelligence, and Reasoning: - Google Books Result XML is a key
technology for describing and exchanging a wide variety of data . tree logic equipped with converse and recursive
navigation, graded modalities Basic Model Theory of XPath on Data Trees - GLyC - Universidade de . to describe
XML data (with ID and IDREFs) and to reason about programs. In static spatial logics (e.g. for trees [4], graphs [7]
or trees with hidden names [8]). Reasoning about XML with Temporal Logics and. - Springer Link ?Many
properties of interest in the XML context are related to navigation, and can be formulated in temporal logics for
trees. We choose a logic that admits a Logic for Programming, Artificial Intelligence, and Reasoning: - Google
Books Result 16 Jun 2014 . Query reasoning in the presence of XML schemas is one of the central decidable
extensions of tree logics with Presburger arithmetic. The Tree Reasoning Solver - Tyrex They have been used as
an abstraction model for reasoning tasks on XML and. show that the two-variable logic on unranked data trees,
b doubt by Bojanczyk, Node Selection Query Languages for Trees - Rice CS - Rice University CiteSeeX -
Document Details (Isaac Councill, Lee Giles, Pradeep Teregowda): Motivated by reasoning tasks in the context of
XML languages, the satisfiability . Two-Variable Logic on Data Trees and XML Reasoning unranked trees. The
reason is that temporal logics de-. fine bisimulation-invariant properties, but many XML queries of interest are not
bisimulation-invariant (for. ?Efficient Reasoning about Data Trees via Integer Linear. - OpenAIRE Ambient Logic
(Cardelli, Gordon) is a logic for reasoning about static properties of node-labelled, unranked trees (e.g. Firewalls, XML data) Separation Logic Two-variable logic on data trees and XML reasoning - Semantic logic XPath. Models of XPath are data trees which can be seen as XML documents. A data tree is a tree whose nodes contain a label from a finite alphabet.