

# Benchmarking Holistic Approaches to XML Tree Pattern Query Processing

(Abstract of Invited Talk )

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## Abstract

In this talk I will outline and survey some developments in the field of XML tree pattern query processing, especially focussing on holistic approaches. XML tree pattern query (TPQ) processing is a research stream within XML data management that focuses on efficient TPQ answering. With the increasing popularity of XML for data representation, there is a lot of interest in query processing over data that conforms to a tree-structured data model. Queries on XML data are commonly expressed in the form of tree patterns (or twig patterns), which represent a very useful subset of XPath and XQuery. Efficiently finding all tree pattern matches in an XML database is a major concern of XML query processing. In the past few years, many algorithms have been proposed to match such tree patterns. In the talk, I will present an overview of the state of the art in TPQ processing. This overview shall start by providing some background in holistic approaches to process TPQ and then introduce different algorithms and finally present benchmark datasets and experiments.