

## Fuzzy XML Queries via Context-based Choice of Aggregations.

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*Abstract:* A flexible query model is presented for semi-structured information stored in *well-formed* XML documents, modeled as *XML fuzzy graphs* by computing estimates of the *importance* of the information associated to XML elements and attributes. The notion of fuzzy graph closure with threshold is then used to obtain a fuzzy extension of the XML fuzzy graphs' topological structure. Weights associated to closure arcs are computed as a conjunction of the importance values of the underlying arcs in the original graph, via a context-based choice of conjunctions. Query results are subgraphs of the resulting fuzzy closure graph, presented as a *ranked list* according to their degree of matching to the user query.

*Keywords:*

*AMS Subject Classification:* 68T;