

A 'Killer App' for Semantic Technologies: Point-and-Click Data Integration Tools Make it Easy to Deliver Targeted Semantic Knowledge Bases

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ABSTRACT

HCLS present unusually dynamic needs for data integration, application and search workflows. Semantic technologies are uniquely suited to provide game-changing integration tools for HCLS through their far more flexible methodologies for data integration and knowledge building.

Traditional data warehousing and federation approaches often choke on the heterogeneity of data sets involved in HCLS (e.g., multiple experimental data silos, public data sets, and clinical data as well as NLP results from scientific, competitive and patent literature.) Even if projects enjoy initial successes, traditional solutions quickly start to break down as novel application requirements and data sets are added.

This talk will describe and demonstrate semantic methods that make it possible for domain experts as well as ontologists and informatics experts to quickly build, modify and extend integrated knowledge bases. Formal ontologies or application ontologies are assembled on the fly as part of the integration process - all without programming or hand-coding of RDF. We'll show you how, in 10 minutes.