

INTEGRATION OF INFORMATION EXTRACTION WITH AN ONTOLOGY

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[Integration Of Information Extraction With An Ontology](#)

This paper describes the integration of an ontology with an information extraction (IE) tool. Our main goal is extract knowledge from text to populate the ontology, and so alleviate the problem of ontology maintenance. The IE tool extracts information using partial parsing and machine learning techniques.

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Ontology-based information extraction and integration from heterogeneous data sources Article (PDF Available) in International Journal of Human-Computer Studies 66(11):759-788 · November 2008 ...

[Ontology-Based Integration of Information — A Survey of ...](#)

Integration of Information Extraction with an Ontology By M. Vargas-vera, J. Domingue, Y. Kalfoglou, E. Motta, S. Buckingham Shum, Maria Vargas-vera, John Domingue, Yannis Kalfoglou, Enrico Motta and Simon Buckingham Shum

[Ontology-based information extraction and integration from ...](#)

Language Processing, Information Retrieval, Extraction and Integration, Ontology Learning and Semantic Browsing can be applied to effectively acquire, share and reuse knowledge in an organizational setting. The overall approach builds on ENRICH [22], a methodology that intends to promote organizational learning with-in an enterprise by providing support for a number of learning processes. The ...

[Ontology-based information extraction and integration from ...](#)

Ontology-based data integration involves the use of ontology(s) to effectively combine data or information from multiple heterogeneous sources. It is one of the multiple data integration approaches and may be classified as Global-As-View (GAV). The effectiveness of ontology based data integration is closely tied to the consistency and expressivity of the ontology used in the integration process.

[An Integrated, Ontology-Driven Approach to Constructing ...](#)

An Ontology-Based Information Extraction Approach for Résumés. Authors; Authors and affiliations; Duygu Çelik; Atilla Elçi; Conference paper. 3 Citations; 3.5k Downloads; Part of the Lecture Notes in Computer Science book series (LNCS, volume 7719) Abstract. A Curriculum Vitae (CV) or a résumé, in general, consists of personal information, education information, work experience ...

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For the purpose of information extraction and integration we rely on a number of several ontology tools, including an ontology editor and an ontology server that we talk about. Finally, we conclude with an outline of our current research dealing with the induction of comprehensive ontologies given a core ontology and given information sources ...

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The extracted information is defined with respect to an underlying ontology (SWIntO: SmartWeb Integrated Ontology [Oberle et al. in preparation]) to enable a smooth integration of derived facts into the general SmartWeb system.

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It is a challenge to integrate data from different institutions: ... Our key concept is to express each of the three ETL steps with an ontology: A source ontology corresponds to the extraction, whereas a target ontology corresponds to the loading. By creating connections between these two ontologies in a mapping ontology, the user defines how data is to be transformed between both. Later, the ...

[Ontology \(information science\) - Wikipedia](#)

Ontology-Based Information Extraction (OBIE) has recently emerged as a subfield of Information Extraction. Here, ontologies - which provide formal and explicit specifications of conceptualizations - play a crucial role in the information extraction process.

[Ontology-based design information extraction and retrieval](#)

Information Extraction as an Ontology Population Task and Its Application to Genic Interactions

[Integration of Information Extraction with an Ontology ????](#)

Information Integration with Ontologies: Ontology based Information Integration in an Industrial Setting is ideal for technical experts and computer researchers in the IT-area looking to achieve integration of heterogeneous information and apply ontology technologies and techniques in practice. It will also be of great benefit to technical decision makers seeking information about ontology ...

[A HYBRID APPROACH FOR ONTOLOGY-BASED INFORMATION EXTRACTION](#)

Information extraction systems employ ontologies as a means to describe formally the domain knowledge exploited by these systems for their operation. The aim of this survey is to study the contribution of ontologies to information extraction systems. We believe that this will help towards specifying a concrete methodology for ontology based ...

[What is Ontology Integration | IGI Global](#)

Data Extraction, Transformation and Integration Guided by an Ontology: 10.4018/978-1-60566-756-0.ch002: This chapter deals with integration of XML heterogeneous information sources into a data warehouse with data defined in terms of a global abstract schema or

[Chapter 2 Data Extraction, Transformation and Integration ...](#)

Keywords: Information Extraction, Ontology-driven Information Extraction, Ontology, Ontology Management 1 Introduction ... Further, we will motivate the integration of ontology management services to keep the underlying ontology up-to-date. Before doing this, we will first give an overview on existing related work in the field of IE where ontologies are being used in the course of the ...

[ontoX - A Method for Ontology-Driven Information Extraction](#)

Ontology-based Information Extraction (OBIE), a subfield of IE, mitigates this difficulty by integrating domain knowledge using a domain ontology. An ontology is an explicit specification of a shared conceptualization that represents knowledge through concepts, relationships and individuals [2]. These concepts and properties guide the extraction process in OBIE [3, 4]. However, OBIE can ...

[Ontology-Driven Information Systems: Challenges and ...](#)

Domain Information Vocabulary Extraction Experiences with Publication Pipeline Integration and Ontology Curation Amit Gupta¹, Weijia Xu¹, Pankaj Jaiswal², Crispin Taylor³, Jennifer Regala³ ¹Texas Advanced Computing Center, University of Texas at Austin, Austin, Texas, USA ²Department of Botany and Plant Pathology, Oregon State University, Corvallis, Oregon, USA

[Ontology-Driven Integration Framework \(ODIF\) – KBSI](#)

document analysis, ontology-based information extraction, and annotation techniques for personal knowledge acquisition in order to bridge the gap between the user's paper world and his personal knowledge space in the Semantic Desktop. A recent prototype shows the feasibility of the approach. 1 Introduction Despite the advent of electronic, personal information management (PIM) tools, knowl ...

[Intelligent Search via Ontology Driven Metadata Analysis](#)

2 Ontology Learning with Information Extraction Rules Figure 1 illustrates the overall idea of building ontologies with learned information extraction rules. We start with: 1. An initial, hand-crafted seed ontology of reasonable quality which contains already the relevant types of relationships between ontology concepts in the given domain. 2. An initial set of documents which exemplarily ...

[Bootstrapping an Ontology-based Information Extraction System](#)

sciences needed to extract structured data from free text documents. L&C's LinkSuite™ environment reflects an ongoing effort to implement the philosophically sound top-level ontology developed by the Institute for Formal Ontology and Medical Information Science in Leipzig [2, 3, 4]. LinkSuite™ consists of a number of mutually complementary modules, each addressing one or other of the ...

[Semantic Matching: Formal Ontological Distinctions for ...](#)

universal ontology [22] that can serve all users, or for that matter, even a single user, in every context. Hence, methods for context-dependent dynamic information extraction and integration from distributed data based on user-specified ontologies are needed to support knowledge acquisition and decision making from heterogeneous distributed data.

[Data Extraction, Transformation and Integration Guided by ...](#)

2.1 Ontology-Based Information Extraction Baclawski et al. [1] summarized the current research tracks that combine ML, information extraction, and ontologies techniques to solve complex problems, such as OBIE. OBIE, as described by Wimalasuriya and Dou [24], is a system that processes unstructured or semi-structured text to extract certain types of

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