

A Fuzzy Ontology Based Semantic Data Integration System

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A Fuzzy Ontology Based Semantic

Alexopoulos et al. proposed a fuzzy ontology-based CBR system using fuzzy algebra. Ali et al. proposed a type-2 fuzzy ontology-based CBR system for collision avoidance of autonomous underwater vehicles. Fuzzy ontology can enhance CBR in different ways such as physician can more easily define experience cases using natural-like language, cases can be indexed more efficiently, and fuzzy-semantic retrieval algorithms can be implemented.

A fuzzy-ontology-oriented case-based reasoning framework ...

A fuzzy integrated ontology model to manage uncertainty in semantic web: the FIOM. International Journal on Computer Science and Engineering 3(3), 1057-1062. Singh, S., Dey, L. & Abulaish, M. 2004. A framework for extending fuzzy description logic to ontology based document processing.

A survey on fuzzy ontologies for the Semantic Web | The ...

This paper shows how a Fuzzy Ontology based approach can improve semantic documents retrieval. After formally defining a Fuzzy Knowledge Base, it is discussed a special type of new non-taxonomic fuzzy relationships, called (semantic) correlations.

A Fuzzy Ontology-Approach to improve Semantic Information ...

We propose a fuzzy ontology for human activity representation, which allows us to model and reason about vague, incomplete, and uncertain knowledge. Some relevant subdomains found to be missing in previous proposed ontologies for this domain were modelled as well.

A fuzzy ontology for semantic modelling and recognition of ...

The proposed solution is based on a fuzzy ontology semantic to integrate different healthcare systems. That framework has many benefits and advantages over frameworks that rely on crisp ontology only, including: (1) it moves toward achieving full semantic interoperability of heterogeneous EHRs, (2) it supports the idea of plug and play where ...

A unified fuzzy ontology for distributed electronic health ...

In particular, a fuzzy formal concept analysis (FCA)-based approach is developed for automatic generation of fuzzy machine service ontology that can deal with uncertain information.

Automatic fuzzy ontology generation for semantic help-desk ...

Ontology-based representation using WordNet is used to extract features from documents which solves the semantic inadequacy of VSM model. Fuzzy technique is used to classify the learners for their interests and Felder-Silverman Learning style model is used to reflect the intrinsic style of the learners.

Ontology Based Semantic Retrieval of Learner Profile

Ontology-based semantic retrieval is a hotspot of current research. In order to achieve fuzzy semantic retrieval, this paper proposes an approach using Resource Description Framework (RDF) and fuzzy ontology. First, we apply RDF/RDFS data model to represent e-commerce information on the Semantic Web.

Semantic Retrieval Based on SPARQL and Fuzzy Ontology for ...

Fuzzy ontology is used because classification of food based on nutrition values is important for recommendations. Calorie count is an important factor in food recommendations. Food ontology retrieves patient details and is utilized to determine and appropriate metabolic rate and calorie intake for a patient.

Fuzzy ontology-based personalized recommendation for ...

Ontology is an effective conceptualism commonly used for the Semantic Web. Fuzzy logic can be incorporated to ontology to represent uncertainty information. Typically, fuzzy ontology is generated from a predefined concept hierarchy.

(PDF) Automatic Fuzzy Ontology Generation for Semantic Web ...

Abstract: A problem in the field of semantic sentence similarity is the inability of sentence similarity measures to accurately represent perception based (fuzzy) words that are commonly used in natural language. This paper presents a new sentence similarity measure that attempts to solve this problem. The new measure, Fuzzy Algorithm for Similarity Testing (FAST) is an ontology based ...

FAST: A fuzzy semantic sentence similarity measure - IEEE ...

The proposed model uses a hybrid fuzzy ontology for semantic relevant document retrieval. It semantically repossesses a position of related documents along with users query esteeming the emphasized sector or domain. It can be used to retrieve every category of documents in a particular domain written in all languages.

Hybrid Ontology for Semantic Information Retrieval Model ...

Fuzzy ontologies and fuzzy extensions of DL have shown to be useful in applications from information retrieval and image interpretation to Semantic Web and others. In, a fuzzy keyword ontology serves to annotate and search events in reports by superimposing a fuzzy partition on fuzzy classifications.

A fuzzy ontology for semantic modelling and recognition of ...

The type-2 fuzzy ontology-based semantic knowledge layer extracts the patient risk factor values via wearable sensors, determines the patient's health condition using type-2 fuzzy logic, retrieves...

Type-2 fuzzy ontology-aided recommendation systems for IoT ...

Ontology learning (ontology extraction, ontology generation, or ontology acquisition) is the automatic or semi-automatic creation of ontologies, including extracting the corresponding domain's terms and the relationships between those concepts from a corpus of natural language text, and encoding them with an ontology language for easy retrieval. As building ontologies manually is extremely ...

Ontology learning | Semantic Scholar

DOI: 10.5120/ijca2015907625 Corpus ID: 37432966. Study of Diet Recommendation System based on Fuzzy Logic and Ontology

@article{Chavan2015StudyOD, title={Study of Diet Recommendation System based on Fuzzy Logic and Ontology}, author={Shital V. Chavan and Santosh S. Sambare}, journal={International Journal of Computer Applications}, year={2015}, volume={132}, pages={20-24} }

[PDF] Study of Diet Recommendation System based on Fuzzy ...

Fuzzy Logic in Ontology Modelling Classical ontology languages are not appropriate to deal with imprecision or vagueness in knowledge. Therefore, Description Logics for the semantic web has been enhanced by various approaches to handle probabilistic & possibilistic uncertainty, and vagueness.

Fuzzy Ontology Framework - CodeProject

If ontology-based CBR systems utilize vague or imprecise knowledge, the semantic effectiveness is further improved. This paper proposes an advanced and complete fuzzy-ontology-based CBR framework that manages and utilizes imprecise knowledge. We implement the most critical steps in CBR (i.e., case representation and retrieval).

A Decision Support System for Diabetes Mellitus Management

based on machine historical data, and semantic technologies use the results of fuzzy clustering to predict the time of failures and the criticality of them. As results, a domain ontology for modeling predictive maintenance knowledge is developed, and a set of

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