Building Large Knowledge-Based Systems: Representation and Inference in the Cyc Project

DOI 10.1007/s10916-014-0067

SYSTEMS, I EVEL QUALITY IMPROVEMENT

An Ontological Case Base Engineering Methodology for Diabetes Management

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Received: 23 October 2013 / Accepted: 28 May 2014 © Springer Science+Business Media New York 2014

Abstract Ontology engineering covers issues related to ontology development and use. In Case Based Reasoning (CIBR, system, ontology plays we ornain roles, the first as case base amtering literature does not provide adequate guidance on how to build, evaluate, and maintain ontologies. This paper propose an ontology engineering methodology to genemic case bases in the medical domain. It mainly ficcuses on the research of case representation in the form of ontology to support the case semantic retrieval and enhance all knowledge intensive CIBR processes. A case study on diabetes diagnosis case base will be

Keywords Case based reasoning · Ontology engineering Case representation · Knowledge management and clinical decision support system.

This article is part of the Topical Collection on Systems-Level Quality Improvement

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Published online: 24 June 2014

Introduction

Ontology is a formal and explicit specification of a shared conceptualization [1]. Ontology defines a common ovcabulary for researchers who need to share information in a domain includes machine-interpre definitions of basic concepts (classes) in the domain, properties of each concept described various features and attributes of the concept (selos, relationships) and restrictions on slots (facets or role restrictions) [2]. Ontology together with a set of individual instances of classes constitutes a knowledge base. Ontology engineering methodology may be understood as an organized set of procedures and guidelines adding and guiding the development of once got during is lifectivele, or parts of ft [2] and development can be

constraints. Some process in the second by the total of exceptions of the constraints of the constraints of the constraints. Some process of the complete life cycle methodology in software engineering. Moreover, each methodology is specialized in a specific domain or for a specific purpose. In CBR field, case representation and case retrieval are the most important and completely related steps. Case representation defines the case base conceptual model, which can be physically stored in any format (i.e. XML, database, or even text file). There are many format when the constraints of the constrai

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The Cyc project, started by Doug Lenat at MCC in, is the most ambitious knowledge representation project ever undertaken. It embodies Lenat's current ideas for a system intended to encode all of commonsense knowledge. The book by Lenat and Guha is a report on the project as it was in The book under review here, Building Large Knowledge-Based Systems: Representation and Inference in the Cyc Project, describes progress so far in an attempt to build a system that is intended to exhibit general common-sense reasoning ability. Building large knowledge-based systems: Representation and inference in the cyc project: D.B. Lenat and R.V. Guha? D.B. Lenat, M. Prakash, M. ShepherdCYC: using common sense knowledge to overcome brittleness and knowledge. Building large knowledge-based systems: Representation and inference in the cyc project: D.B. Lenat and R.V. Guha? J. Allen, R. Fikes, E. Sandewall (Eds.), Principles of Knowledge Representation and Reasoning: Proceedings Second.Building Large Knowledge-Based Systems; Representation and Inference in the . Douglas B. Lenat, R. V. Guha, The evolution of CycL, the Cyc representation .. Model and Manage Enterprise Projects, International Journal of Web Portals, Authors - Cited By.Building Large Knowledge-Based Systems: Representation and Inference in the Cyc Project [Douglas B. Lenat, R. V. Guha] on aceacademysports.com *FREE* shipping.Request PDF on ResearchGate Building large knowledge-based systems: Representation and inference in the cyc project: D.B. Lenat and R.V. Guha The .Building large knowledge-based systems: representation and inference in the Cyc project. Front Cover. Douglas B. Lenat, R. V. Guha. Addison-Wesley Pub.D. Lenat and R. Guha () Building Large Knowledge Based Systems: Representation and Inference in the Cyc Project. Addison-Wesley. Cyc is the world's longest-lived artificial intelligence project, attempting to assemble a . Typical pieces of knowledge represented in the Cyc knowledge base are "Every tree is a plant" and "Plants die eventually". When asked .. Building Large Knowledge-Based Systems: Representation and Inference in the Cyc Project.Building Large Knowledge-Based Systems has 2 ratings and 0 reviews: Large Knowledge-Based Systems: Representation and Inference in the Cyc Project., English, Book edition: Building large knowledge-based systems: representation and inference in the Cyc project / Douglas B. Lenat, R.V. Guha. The Cyc project, under the leadership of Douglas Lenat and R. V. Guha, is an Large Knowledge-Based Systems: Representation and Inference in the CYC.Building Large Knowledge-Based Systems: Representation and Inference in the Cyc Project by Douglas B. Lenat; R. V. Guha and a great selection of similar building CYC, a universal schema of roughly gener- assumptions of doing such a large-scale project, reviews the technical lessons learned by the The book by Lenat and Guha is a report on the project as it was in Large Knowledge-Based Systems: Representation and Inference in the Cyc Project.aceacademysports.com: Building Large Knowledge-Based Systems: Representation and Inference in the Cyc Project. This article lays the groundwork for the probabilistic multi-knowledge-base system (PMKBS), a new decision aid specifically tailored to the needs of a.Building large knowledge-based systems: representation and inference in the Cyc project / Douglas B. Lenat, R.V. Guha. Other title(s):: CYC project.

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