

Sistem baze znanja za $FO(\cdot)$ jezik - Knowledge Base System for the $FO(\cdot)$ language

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Abstract

IDP je sistem baze znanja (KB-sistem) za $FO(\cdot)$ jezik razvijen od strane KRR grupe KULeuven univerziteta profesora Marc Denecker-a. Sistem baze znanja jeste sistem koji podržava više oblika zaključivanja nad istom bazom znanja. $FO(\cdot)$ je proširenje iskazne logike prvog reda (FO), tipovima, agregacijama, induktivnim definicijama, ograničenom aritmetikom, parcijalnim funkcijama, itd.

Ja ću pokušati da objasnim ideju našeg KB-sistema, sa aspekta sintakse, formalne i neformalne semantike. Kako je glavna ideja razdvajanje znanja od zaključivanja, ideja će biti demonstrirana na par primera. Biće reči i o primeni u industriji.

IDP is a knowledge Base System (KB-system) for the $FO(\cdot)$ language developed by KRR group of KULeuven university, professor Marc Denecker. A Knowledge Base system is a system that supports multiple forms of inferences for the same Knowledge Base. $FO(\cdot)$ is an extension of first-order logic (FO) with types, aggregates, inductive definitions, bounded arithmetic, partial functions, etc.

I will try to explain the idea of our KB-system, from aspect of syntax, formal and informal semantics. Since main idea is to separate knowledge from inference this will be presented on a few examples. There will be a discussion on how we use this approach in industry and why it is important.

More on: <https://dtai.cs.kuleuven.be/drupal/software/idp>