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## **A Defeasible Logic Programming Based**

A Defeasible Logic Programming-Based Framework to Support Argumentation in Semantic Web Applications (Springer Theses)

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## **A Defeasible Logic Programming-Based Framework to Support ...**

springer, This book reports on the development and validation of a generic defeasible logic programming framework for carrying out argumentative reasoning in Semantic Web applications (GF@SWA). The proposed methodology is unique in providing a solution for representing incomplete and/or contradictory information coming from different sources, and reasoning with it.

## **A Defeasible Logic Programming-Based Framework to Support ...**

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## **A Defeasible Logic Programming-Based Framework to Support ...**

Defeasible logic is a non-monotonic logic proposed by Donald Nute to formalize defeasible reasoning. In defeasible logic, there are three different types of propositions: strict rules specify that a fact is always a consequence of another; defeasible rules specify that a fact is typically a consequence of another; undercutting defeaters specify exceptions to defeasible rules. A priority ordering over the defeasible rules and the defeaters can be given.

**Defeasible logic - Wikipedia**

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We select the defeasible logic programming (Garcia and Simari 2004, Antoniou et al 2004) as an adequate reasoning means to handle unreliable knowledge extracted from text. This rule-based approach ...

### **(PDF) A defeasible logic programming system for the Web**

Defeasible logic is a logic-programming based nonmonotonic reasoning formalism which has an efficient implementation. It makes use of facts, strict rules, defeasible rules, defeaters, and a ...

### **(PDF) Sceptical logic programming based default reasoning ...**

Defeasible Logic Programming (DeLP) for representing legal cases and for giving decision-support, exemplary for private law. We give a formalization of legal pro-visions that can be used

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easily by judges for supporting their decision process and present a working system that resembles the decision-making in legal reasoning, in

## **Using Defeasible Logic Programming for Argumentation-Based ...**

The work reported here introduces Defeasible Logic Programming (DeLP), a formalism that combines results of Logic Programming and Defeasible Argumentation. DeLP provides the possibility of representing information in the form of weak rules in a declarative manner, and a defeasible argumentation inference mechanism for

## **Defeasible Logic Programming An Argumentative Approach**

Defeasible logic, originally created by Donald Nute with a particular concern about efficiency and implementation, is a

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simple and efficient rule based non-monotonic formalism. Over the year the logic has been developed and extended, and several variants have been proposed.

## **Defeasible Logic**

A Defeasible Logic Programming-Based Framework to Support Argumentation in Semantic Web Applications

## **A Defeasible Logic Programming-Based Framework to Support ...**

Abstract We revise some results in Argumentation-based Logic Programming under the umbrella of Satisfiability Modulo CHR (SMCHR), specifically considering Defeasible Logic Programming (DeLP). Strict and defeasible rules in DeLP can be cast to SMCHR rules, which act as conflict “disentanglers” and implement the Theory part.

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## **Defeasible Logic Programming in Satisfiability Modulo CHR ...**

In this work, we design a new logic for defeasible reasoning, thus ensuring scalability by design. We establish several properties of the logic, including its relation to existing defeasible logics. Our experimental results indicate that our approach is indeed scalable and defeasible reasoning can be applied to billions of facts.

## **Rethinking Defeasible Reasoning: A Scalable Approach ...**

A well-known contribution among argumentation-based defeasible logics is that of Garc'ia and Simari's. The authors present DeLP, a logic programming formalism based on defeasible argumentation.

## **t-DeLP: an argumentation-based Temporal Defeasible Logic ...**



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Defeasible logic is a nonmonotonic logic introduced by Nute [7,8] as a way to formalise defeasible reasoning. Defeasible logic was made practical in the d-Prolog programming language [9] (an extension of Prolog based on defeasible logic). Defeasible logic and defeasible Prolog (d-Prolog for short) have all.

## **An Approach for Argumentation-based Reasoning Using**

...

Inspired by legal reasoning, this paper presents a semantics and proof theory of a system for defeasible argumentation.

Arguments are expressed in a logic-programming language with both weak and strong negation. Conflicts between arguments are decided with the help of priorities on the rules.

## **Argument-Based Extended Logic Programming With Defeasible ...**

In philosophical logic, defeasible reasoning is a kind of reasoning

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that is rationally compelling, though not deductively valid. It usually occurs when a rule is given, but there may be specific exceptions to the rule, or subclasses that are subject to a different rule.

## **Defeasible reasoning - Wikipedia**

GF@SWA enables Semantic Web applications to represent both structured and unstructured information and/or translate the existing information into a defeasible logic programming (DeLP) format, perform hybrid reasoning for arguments construction, identify and resolve conflicts among arguments, integrate them and produce their graphical representation in the form of reasoning chains.

## **A defeasible logic programming-based framework to support ...**

Possibilistic Defeasible Logic Programming (P-DeLP) is a logic

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programming language which combines features from argumentation theory and logic programming, incorporating as well the treatment of possibilistic uncertainty and fuzzy knowledge at

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