



Fakultät für Ingenieurwissenschaften und Informatik

Informatik-Fachvortrag

Donnerstag, den 8. Oktober 2009, 9 Uhr s.t.
Universität Ulm, Oberer Eselsberg
Gebäude O28, Raum 1002

Herr Peter van Weert
K.U.Leuven, Belgium

spricht zum Thema

CHR Implementation Techniques

Constraint Handling Rules (CHR) is a powerful, high-level programming language based on multi-headed multiset rewrite rules. In recent years, CHR has matured to a powerful general purpose language, increasingly used for applications such as constraint solving, computational linguistics, and multi-agent systems. Considerable research has therefore been devoted to the efficient compilation and execution of CHR programs, resulting in several very efficient CHR systems for Prolog, Java, C, and Haskell.

This tutorial provides a lucid, comprehensive overview of the efficient compilation and optimization techniques used by current state-of-the-art CHR systems. Using high-level pseudocode and clarifying examples, we first introduce the fundamental lazy rule evaluation methodology, and then gradually the more advanced analysis and optimization techniques. We briefly compare our approach with the popular Rete matching algorithm, and touch upon ongoing and future CHR implementation research.

This invited talk is part of the CHR Working Week in Ulm from Oct, 5th to Oct, 9th. The complete program can be found on <http://www.uni-ulm.de/in/pm/forschung/veranstaltungen/chr-working-week.html>

Es laden ein die Dozenten der Fakultät für Ingenieurwissenschaften und Informatik.

Ulm, den 29.09.2009

gez. Prof. Dr. Dr. T. Frühwirth