A Taste of Constraint Handling Rules Today

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Constraint Handling Rules (CHR for short) is a multi-set rewriting language designed specifically for writing constraint propagators and simplifiers [1, 3].

After a brief introduction of the language this talk focuses on the research of the Leuven CHR group in recent years. This research is centered around the development of CHR systems, optimized compilation and applications of constraint solving to programming language research. Highlights of the talk are optimal time and space complexity results, and an application of CHR to systematic test case generation for the logic programming language Mercury.

Biography

Tom Schrijvers is a post-doctoral researcher at the Department of Computer Science at the Catholic University of Leuven. He obtained his Ph.D. on “Analyses, Optimizations and Extensions of Constraint Handling Rules” in 2005 [2] and is the lead developer of the K.U.Leuven CHR system, which is distributed with major Prolog systems. His recent recent research interests include CHR language design and implementation, and advanced type system features for the functional programming language Haskell.

References


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