Тип работы: Реферат

Предмет: Английский продвинутый

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A parser Generator System for Level-based programming languages

Let me introduce the summary of the article devoted to the study of a parser Generator System for Level-based programming languages written by Michael Hanus and Jan Rasmus Tikovsky.
In this article authors represented a parser generator system, called Levels, for level-based programming languages, where one can implement level-specific semantic analyses to provide comprehensible error messages. The way to simplify language learning is to split up the teaching and learning contents of a programming course into levels of growing complexity building on one another. With the help of introduced method of learning, it will be possible to hide advanced language components on lower levels and provide students with specific warnings or compiler errors if they accidentally use them.
Authors give an example for the language Scheme with the DrScheme environment [FCF+02] and the corresponding textbook [FFFK01]. Scientists discuss parser generators for Haskell, which generate AST, DrRacket and Eclipse IDE. The EBNF-like syntax description language is used to restrict language features to certain levels. The (extended) Backus-Naur Form (EBNF [Wir77]) is the main notation to specify grammar rules in a simple way. Michael Hanus and Jan Rasmus Tikovsky present and describe code with

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