Abstract

Over the last three decades, an increasing number of languages used for designing and developing software have been created. Software developers gain the benefits of combining multiple programming languages and paradigms in application development, as a result the so-called language engineering approach can be outlined. It involves Domain-Specific Languages (DSLs) and automatic code generation. This paper offers a brief review of the use of DSL as a modeling and programming language and it tight connection with automatic code generation. The evolution of the developed software product requires evolution of the domain-specific language as well. Some of the risks of abandoning of DSLs during development are discussed.

References

- Bentley J. 1986 Little languages. CACM, 29(8), 711–721.
Index Terms

Computer Science  Information Sciences

Keywords

Metaprogramming  DSL  code generation  language engineering  modeling.