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"Tratamento de Exceção, Herança Múltipla e Aspectos pela Máquina Virtual do Lingoal"

This dissertation describes the inclusion of the mechanisms for supporting at following concepts: exception handling, multiple inheritance and aspects in LingOal, a pure and dynamic object-oriented programming language, developed at Computer Science's Department at Fluminense Federal University.

It was developed an exception handling mechanism for methods, as well as for other basic concepts of the LingOal. A reasonable amount of solutions was analyzed for deciding about the better solution for LingOal. This mechanism will support a implementation of a type system for LingOal, with dyinamic type checking.

A implementation strategy of the inclusion of multiple inheritance mechanism was similar to strategy using by C++ language.

It was a challenging experience projecting and developing the aspect support mechanism, because it could not be found a programming language with the same goals and characteristics of LingOal that could be used as basis for this work.