MC921 - Compilers Construction and Design

Since 2016

Prerequisite: MC504

Syllabus:

Programme:
- Techniques, methods and algorithms used in the construction of modern compilers:
  - Lexical, syntactic and semantic analysis;
  - Type verification;
  - Activation Records;
  - Translation to intermediate code;
  - Code generation;
  - Data flow analysis;
  - Optimization techniques;
  - Garbage collection;
  - Compilers for object oriented programming languages;
  - Implementation of a compiler.

Bibliografia:
- A. Appel, Modern Compiler Implementation in Java, 2ª. edição, Cambridge University Press, 2002