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Descrizione fisica	Online-Ressource
Classificazione	OST SLAW
Disciplina	300 891.8
Soggetti	Zeitschrift
Lingua di pubblicazione	Artificial (Other)
Formato	Materiale a stampa
Livello bibliografico	Periodico
Note generali	Refereed/Peer-reviewed

2. Record Nr. UNINA9910437602603321

Autore	Wilhelm Reinhard
Titolo	Compiler Design : Syntactic and Semantic Analysis / / by Reinhard Wilhelm, Helmut Seidl, Sebastian Hack
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2013
ISBN	3-642-17540-6
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (232 p.)
Disciplina	005.453
Soggetti	Computer programming Compilers (Computer programs) Programming Techniques Compilers and Interpreters
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di contenuto	Introduction -- Lexical Analysis -- Syntactic Analysis -- Semantic Analysis -- References -- Index.
Sommario/riassunto	While compilers for high-level programming languages are large complex software systems, they have particular characteristics that differentiate them from other software systems. Their functionality is almost completely well-defined – ideally there exist complete precise descriptions of the source and target languages. Additional descriptions of the interfaces to the operating system, programming system and programming environment, and to other compilers and libraries are often available. This book deals with the analysis phase of translators for programming languages. It describes lexical, syntactic and semantic analysis, specification mechanisms for these tasks from the theory of formal languages, and methods for automatic generation based on the theory of automata. The authors present a conceptual translation structure, i.e., a division into a set of modules, which transform an input program into a sequence of steps in a machine program, and they then describe the interfaces between the modules. Finally, the structures of real translators are outlined. The book contains the necessary theory and advice for implementation. This book is intended for students of computer science. The book is

supported throughout with examples, exercises and program fragments. .