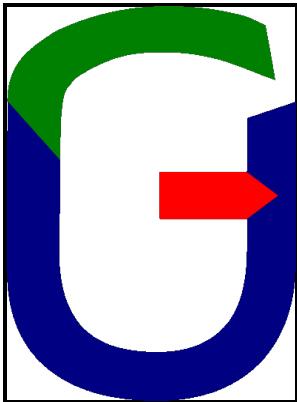


Design of an advanced LALR parse table constructor

University of Toronto, Dept. of Computer Science - automata



Description: -

-design of an advanced LALR parse table constructor

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Notes: Thesis (M.Sc.) -- University of Toronto, 1975.

This edition was published in 1975



Filesize: 47.41 MB

Tags: #LALR #Parser #(with #Examples)

parsing

By Dinesh Thakur Pre-processor A source program may be divided into modules stored in separate files. The algorithm used to parse it in the next section is just an LR parser.

LALR Parser

Yeah I noticed that Gold Parser implements the LALR parser table algorithm, and also creates Finite Automata for the regular expressions for terminals of the lexical analyser, something that my code above doesn't do.

Construction of LL(1) Parsing Table

Canonical LR parser is more powerful than LALR parser b.

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If there are several accepting states, then the pattern P which appears earliest in the list of lex program is chosen.

LALR 1 Parsing

Hi Ranjith, thanks for your question. Such an automaton is called an LR 0 automaton.

Construction of LL(1) Parsing Table

Synchronizing tokens are delimiters, semicolon or } whose role in source program is clear. Profiling the parsers reveals that the LALR parser spends most of its time looking up, decoding and dispatching values from its tables.

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