

Positive Constructed Formulas Preprocessing for Automatic Deduction¹

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31 May 2016
Opatija, Croatia

¹Supported by Russian Science Foundation, project No. 16-11-00053

The PCF calculus is both machine-oriented, and human-oriented, naturally it was aimed at solving the problems of dynamic systems control.

Features of PCFs follows:

- ① unique inference rule and simple scheme of axioms;
- ② modifyability of semantics (constructive, monotonic, temporal, etc.);
- ③ it is possible to construct intuitionistic inferences of some non-Horn formulas;
- ④ explicit usage of \forall - and \exists -quantifiers;
- ⑤ scolemization procedure is not required.