Global Reflection

Jacques Carette William M. Farmer
Johanna Schwartzentruber

today

Abstract

1 Introduction

2 Global Reflection

3 $\mathrm{CTT}_{\mathrm{qe}}$

3.1 Syntax

3.2 Semantics

3.3 Quasiquotation

3.4 Proof System

3.5 The Three Design Problems

4 HOL Light QE

4.1 Overview

4.2 Implementation

4.3 Mapping of $\mathrm{CTT}_{\mathrm{qe}}$ Expressions to HOL Terms

4.4 Support Machinery

4.5 Metatheorems

5 Binary Arithmetic

6 Related Work

7 Conclusion

Acknowledgments