

A Graded Syntactic Model of Gradual Dependent Types

Translation to Support Implementation and Metatheory

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TODO write abstract

1 INTRODUCTION

2 THE NEED FOR A SYNTACTIC MODEL OF GRADUAL DEPENDENT TYPES

2.1 Two Problems - One Solution

2.2 Translation to Support Implementation

2.2.1 *Don't Reinvent The Wheel.*

2.2.2 *An Implementation Strategy.*

2.2.3 *The Idris Model of Non-Termination.*

2.2.4 *Translating Approximate Normalization.*

2.3 Metatheory

2.3.1 *Extinguishing the Fire Triangle.*

2.3.2 *Static Reasoning in Gradual Code.*

2.4 Modelling Gradual Dependent Types

2.4.1 *Modelling Approximate Normalization.*

2.4.2 *Guarded Type Theory.*

2.4.3 *Relating Approximate and Exact Normalization.*

REFERENCES