Bisimulations on Finitary Functors (Possible) Paper Outline and Abstract

Proposed Abstract

Proposed Outline

I-Introduction

II-Preliminaries

II-1 Bisimulations %(on Set-endofunctors and endofunctors for general categories)
II-2 Polynomial Functors %(on Set-endofunctors and in more general settings)
II-3 Finitary Functors %(and Finitely Bounded Functors on most general settng and Set-setting)

III-Finitely Presentable Functors

III-1 Equivalence with Finitary Functors in Set
III-2 Equivalence with Finitary Functors in More General Setting

IV-Bisimulations on Finitary Functors of [insert type of category here, Possibly Concrete] Categories

IV-1 Bisimulations on Polynomial Functors
IV-2 Bisimulations on Finitary Functors
%consider placing examples in its own section

V-Conclusion