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Fragment Computing Categories and Fragment Consistent Functorial Models.

Abstract Starting with Infinite language categories (Nourani 1995) specific computing models based on fragments are presented. Positive categories and Horn categories are new fragment categories defined and the applications to a Positive Process algebraic computing (Nourani 2005) is outlined. For example, the author defined the category LP_w to be the category with objects positive fragments and arrows the subformula preorder on formulas to present models. The model bases are Fragment Consistency Models where new techniques for creating generic models are defined. Infinitary positive language categories are defined and infinitary complements to Robinson consistency from the author's preceding papers are further developed to present new positive omitting types techniques and infinitary positive fragment higher stratified computing categories. Further neoclassic model-theoretic consequences are presented in (Nourani 2005). Nourani,C.F., "Functorial Model Theory and Infinite Language Categories," September 1994, Presented to the ASL, January 1995, San Francisco. [ASL Bulletins 1996]. (Received January 23, 2008)