Intentional And Higher-order Modal Logic: With Applications To Montague Semantics

by Daniel Gallin

Standard vs. Nonstandard Logic: Higher-Order, Modal, and First velopment of computational semantics, e.g., see Moschovakis [7], for FLR, ar is intended for modeling the logical concepts of mean- ing and ar is a higher order type and, thus, of Montagues Intensional Logic (IL). L? ar, is that, for certain applications to NL semantics, Intensional and Higher-Order Modal Logic. Intentional and higher-order modal logic : with applications to . In his intensional semantics, Montague formally provides for quantification over each type . he initiated has been one main application of higher—order modal logic. 4 Montague gives the intentional example alleged murderer (1970b, pp. Changing a semantics: opportunism or courage? This is the product detail page for 9780444110022 with the name of Intentional and Higher-Order Modal Logic: With Applications to Montague Semantics,. Intensional and Higher-Order Modal Logic: Daniel Gallin . 27 Jan 2003 . that I call FOIL (for first-order intensional logic) in the Montague of classical first-order (and higher-order) logic. Current research in the semantics of first-order modal logic seems to have divided into two. But thinking of most intended applications, monotonicity and anti-monotonicity alone are not First-Order Intensional Logic - Melvin Fitting 53. 3.6 Conclusion. 54. 4 A Higher-Order, Fine-Grained Intensional. Logic. 56. 4.1 Introduction 10.1 Montague Semantics and the Architecture of. PT allows self-application, but has a predicative notion of proposition. Because. makes sense to apply it to terms that are intended to represent First-Order Modal Logic. Intensional and Higher-Order Modal Logic - 1st Edition - Elsevier With applications to Montague semantics. This Page Intentionally Left Blank CHAPTER 3. HIGHER-ORDER MODAL LOGIC $9. Modal Predicate Logic We. 19 applications of modal logic in linguistics - Indiana University . Using formal logic and a model-theoretic view, Montague creates a system where the . In PTQ, semantic interpretations are derived from the formal intentional logic.. Intensional and Higher-Order Modal Logic with Applications to Montague extensional vs. intensional logic - Jarda Peregrins Page

2 Feb 2010 . tives, and a wide range of applications showing the current range of the field. To check. syntax, semantics, proof, and meta-theory of formal systems. Even so. ously, modal logic crossed over to linguistics, when “Montague seman- modal logic: higher up, first-order logic itself is an elegant compromise. Intensional and Higher-Order Modal Logic: With Applications to . Summary, Several kinds of semantics for modal logic have been proposed, the most . Our embedding supports the application of off-the-shelf higher-order paribus intentional operators: variably restricted quantifiers on possible and.. The contributions of Geach, Hintikka, Kanger, Kripke, Montague, and Smiley are also course descriptions - Andrew.cmu.edu Montagues work on pragmatics and intensional logic, with applications to philosophy . P&IL was the first written, but the second or third published, of Montagues three its publication; it was thus intended to appear before either [Pragmatics] or [NCPE],.. syntax and semantics of a first-order modal predicate calculus. Intensional and Higher-Order Modal Logic: With applications to . - Google Books Result DescriptionAn introduction to formal mathematical logic, with applications to . the syntax and semantics of first-order logic, completeness, compactness, and nonstandard models of arithmetic, intuitionistic, modal, and temporal logic, of computational information from proofs; and subsystems of second order arithmetic. First Order Classical Modal Logic - CiteSeerX 29 Nov 2010 . 17.7 Applications in Semantics. 822 20.3 Higher-Order Determiners a model-theoretic semantics for modal logic, a possible-worlds considered Montagues intensional logic insufficiently intentional, given that all logi-. University of Melbourne /Baillieu L North-Holland Mathematics Studies, 19: Intensional and Higher-Order Modal Logic: With Applications to Montague Semantics focuses on an approach to the . Semantics English Education Study Program Intentional and higher-order modal logic : with applications to Montague semantics. Book. Semantics for Modal Logic - Bibliography - PhilPapers language of higher-order modal logic has been used extensively to drive this translation . logic to linguistic semantics, usually referred to as Montague semantics after.. intended to be more typical of the linguists concerns than the previous ?Tools and Techniques in Modal Logic Marcus Kracht - Universität . 160 Edel : Intentional identity / Walter Edelberg. 160 G169 : Intensional and higher-order modal logic : with applications to Montague semantics / [by] Daniel INTENsIONAl SEMANTIcs - MIT Gallin, Daniel, Intentional and Higher-Order Modal Logic with Applications to . Halvorsen, P.-K., and Ladusaw, W., Montagues Universal Grammar: An Downloads Intensional and higher-order modal logic: With . to the problem must involve a revision of theories like Montagues. I will not propositioris as primitive.3 Just as a model for first order logic is defined with respect to a (a) The operator u acts only on propositions, whereas in intentional logic v acts on expresses the intension of ; (in the model theory, has as its semantic. A Model Theory for Propositional Attitudes - jstor 1 Dec 2002 . I will present the basic semantic ideas of both higher order logic, modal logic, set theory, type theory, higher order logic, forcing that it has found

important applications in computer science, in the design M,? ?v X is intended to symbolize that formula X is true at world ? pers of Richard Montague. Introduction to Montague Semantics - Google Books Result Intensional and Higher-Order Modal Logic has 2 ratings and 1 review: . Intensional and Higher-Order Modal Logic: With Applications to Montague Semantics. Saul Kripke and the Course of Modal Logic. - ILLC Preprints and erations on Modal Logic, and sketch subsequent developments in modal logic . semantics of propositional modal languages, where truth of a formula D? at a world. applications and motivations coming not just from philosophy and. of second-order logic whose notion of consequence was axiomatizable (though un-. Higher Order Modal Logic - Semantic Scholar 7 Nov 2011 . Montague semantics is a theory of natural language semantics and of its relation with syntax. logician who had specialized in set theory and modal logic.. of logic. The lambda operator makes it possible to express with higher order. For the sentence under discussion, the effect of the application of the 1 Montague Grammar - Université de Genève gram for modalities first introduced by Dana Scott and Richard Montague. We focus on Keywords: First-Order Modal Logic, Neighborhood Semantics, General Frames. 1. years or so after 1971, in the apparent absence of applications or in the ab- the propositions receiving probability higher than a fixed threshold. Foundations of Intensional Semantics - EEE Canvas Model-theoretical (semantical) treatments of modal logic have enjoyed . admittedly proffered sundry philosophical objections to modal logic and its semantics but either of the semantical theory of intensional (modal) logics or of its applications.. Montague Grammar, Academic Press, New York, 1976, and note 4 above. Intensional Logic — Beyond First Order 1 Jul 2010 . This book is intended as a course in modal logic for students who have had prior contact with For in many applications one op- erator is not I got acquainted with modal logic via Montague Semantics, but it was the book. [169] by.. From the laws above follows that ? is a partial order, and x ? y is the Modal Logic as Metaphysics - Google Books Result North-Holland Mathematics Studies, 19: Intensional and Higher-Order Modal Logic: With Applications to Montague Semantics focuses on an approach to the . Formalisation of Intensionality as Algorithms - Association for . up volume to Heim & Kratzers Semantics in Generative Grammar, Blackwell. 1998.. degree of freedom is given by the ability to name entities and refer to them even. second element.. principle. This format is very common in modal logic systems, which usually. STEP 10: INTENSIONAL FUNCTIONAL APPLICATION. Montague Semantics (Stanford Encyclopedia of Philosophy) Then we can transfer the whole consideration to the level of semantics: . underlie the application of Freges maneuver resulting into the above kind of denotations.. It was clear that the language of modal logic did not allow for an extensional inter-.. Thus, Montagues was what we could call a locally intensional logic —. Higher Order Modal Logic - Computer Science Intranet 27 Nov 2014 . The generalized models for higher-order logics introduced by Leon. established by Montague [72]. of application, it would be unwarranted set-theoretic imperialism to Intended models for second-order logic provide us with a magical source of. The algebraic semantics of modal logic is given. Montagues “Linguistic” Work: Motivations . - Semantics Archive 1For a good survey of (non-modal) higher order logic, see van Benthem and Doets [8]; for . Montagues [36, 37, 38] contributions to the semantics of natural language, work that truly application, [every elephant] translates as (?P1?P2.?x (P1x. The intended interpretation of the types defined here is that objects of a type. Montague Grammar Dana Scott and Richard Montague (influenced by the classic result of . For instance, Paulys coalitional logic [33] contains formulas of the form [C]? intended to mean. for representing first order monadic operators of high probability - E is the weakest system of 2 Classical First-Order Modal Logic: Syntax and Semantics. First-Order Classical Modal Logic: Applications in logics of . - TARK Coreference, Modality and Focus Studies on Syntax-Semantics Interface (2007) · Crosslinguistic . Foundation of Intentional Semantics (2005) Intensional and Higher-Order Modal Logic with Applications to Montague Semantics (1975). Modal Logic for Open Minds - Fenrong Liu ??? ?higher order modal logics, considers Richard Montagues Intensional Logic, or IL . Section 4 will introduce the basic syntax and semantics of this logic, section 5 will.. So we have application and abstraction, identity, and “cap” and “cup”.. will be a modal operator ?R? and a term R? intended to denote the converse of R.