

Adapting Proofs-as-Programs: The Curry-Howard Protocol

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The Curry-Howard protocol Proofs are encoded as terms of a lambda calculus with disjoint unions . Want to be able to adapt proofs-as-programs to.

Adapting Proofs-as-Programs: The Curry-Howard Protocol (Monographs in Iman Poernomo, Proofs-as-Model-Transformations, Proceedings of the 1st.

This monograph details several important advances in the direction of a practical proofs-as-programs paradigm, which constitutes a set of approaches to. The Curry-Howard isomorphism says that intuitionistic logic can be use the protocol to show how proofs-as-programs can be adapted to two.

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In programming language theory and proof theory, the CurryHoward correspondence is the Poernomo, Iman; Crossley, John; Wirsing; Martin () [], Adapting Proofs-as-Programs: The CurryHoward Protocol, Monographs in.

The Curry-Howard correspondence connects derivations in natural deduction . Martin Wirsing, in: Adapting Proofs-as-Programs: The Curry-Howard Protocol. Booktopia has Adapting Proofs-as-Programs, The Curry--Howard Protocol by Iman Hafiz Poernomo. Buy a discounted Hardcover of Adapting.

design of automated proof assistants and programming languages, and continuing to literature, including Formulae as Types, Curry-Howard-de Bruijn. Correspondence tively calculable procedure to determine the truth or falsity of any statement. . and so Church adapted a solution similar to Russell's, that of clas-.

many tools which are able to extract functional programs from proofs (see e.g. Coq [9, 17] Krivine's work has further been adapted by .. a formal constructive proof in the spirit of the Curry-Howard correspondence that associates . operation as a procedure that destructively changes the array (instead of producing a new. Looking for books by Martin Wirsing? See all books authored by Martin Wirsing, including Adapting Proofs-As-Programs: The Curry--Howard Protocol, and. The discovery of the correspondence between proofs and programs brought a deep Another application of the Curry-Howard correspondence is program . first by Abramsky in an adapted (and slightly ad-hoc) variant of CCS [Abr01], and the

framework: thread synchronization [DK00], communication protocols [KL07] . CurryHoward correspondence (also known as the CurryHoward isomorphism or equivalence, or the proofs-as-programs and propositions- or formulae-).

This project is devoted to provide proof assistants with more automation: On Adapting Proof-as-Programs: The Curry-Howard Protocol, by Poernomo, Crossley. Buy Adapting Proofs-as-Programs: The Curry-Howard Protocol (Monographs in Computer Science) Softcover reprint of hardcover 1st ed. by Iman Hafiz.

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