



On P -Interpolation in Local Theory Extensions and Applications to the Study of Interpolation in the Description Logics $\mathcal{EL}$, $\mathcal{EL}^+$

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Abstract. We study the P -interpolation property for certain local theory extensions, and use these results for proving $\leq$ -interpolation in classes of semilattices with monotone operators. For computing the $\leq$ -interpolating terms, we use a hierarchic approach. We use these results for the study of $\sqsubseteq$ -interpolation in the description logics $\mathcal{EL}$ and $\mathcal{EL}^+$.

1 Introduction

In this paper we study the problem of P -interpolation, a problem strongly related to interpolation w.r.t. logical theories. The problem can be formulated as follows:

Let $\mathcal{T}$ be a theory, A and B be conjunctions of ground literals in the signature of $\mathcal{T}$, possibly with additional constants, P a predicate symbol in the signature of $\mathcal{T}$, a a constant occurring in A and b a constant occurring in B . Assume that $A \wedge B \models_{\mathcal{T}} aPb$. Can we find a ground term t containing only constants and function symbols “shared” by A and B , such that $A \wedge B \models_{\mathcal{T}} aPt \wedge tPb$?

Interpolation has been studied in classical and non-classical logics and in extensions and combinations of theories; and is very important in program verification and also in the area of description logics. The first algorithms for interpolant generation in program verification required explicit constructions and “separations” of proofs [14, 16]. In [13] interpolants are computed using variants of resolution. For certain theories, the “separation” of proofs relied on the possibility of “separating” atoms, i.e. on P -interpolation. Equality interpolation is used in [34] for devising an interpolation method in combinations of theories with disjoint signatures. In [22, 24] and [19], for instance, we consider interpolation problems in certain classes of extensions $\mathcal{T}_0 \cup \mathcal{K}$ of a base theory $\mathcal{T}_0$ and use a hierarchical approach to compute interpolants. The method relies on the P -interpolation property of the base theory $\mathcal{T}_0$. In most of the applications we considered, P is the equality predicate $\approx$ or a predicate $\leq$ with the property that in all models of $\mathcal{T}_0$, the interpretation of $\leq$ is a partial ordering. Since at that time our main interest was the study of *interpolation problems*, in [22, 24] and [19] P -interpolation is only used in order to help in giving methods for interpolation and not as a goal in itself. However, in several papers in the area

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Table of Contents Study Of Logics

1. Understanding the eBook Study Of Logics
 - The Rise of Digital Reading Study Of Logics
 - Advantages of eBooks Over Traditional Books
2. Identifying Study Of Logics
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Study Of Logics
 - User-Friendly Interface
4. Exploring eBook Recommendations from Study Of Logics
 - Personalized Recommendations
 - Study Of Logics User Reviews and Ratings

- Study Of Logics and Bestseller Lists
- 5. Accessing Study Of Logics Free and Paid eBooks
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 - Study Of Logics eBook Subscription Services
 - Study Of Logics Budget-Friendly Options
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 - Study Of Logics Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Study Of Logics
 - Highlighting and Note-Taking Study Of Logics
 - Interactive Elements Study Of Logics
- 8. Staying Engaged with Study Of Logics
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Study Of Logics
- 9. Balancing eBooks and Physical Books Study Of Logics
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Study Of Logics
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Study Of Logics
 - Setting Reading Goals Study Of Logics
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Study Of Logics
 - Fact-Checking eBook Content of Study Of Logics
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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