



# Precedent-based reasoning with incomplete information for human-in-the-loop decision support

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## Abstract

We define and study the notions of stability and relevance for precedent-based reasoning, focusing on Horty's result model of precedential constraint. According to this model, precedents constrain the possible outcomes for a focus case, which is a yet undecided case, where precedents and the focus case are compared on their characteristics (called dimensions). In this paper, we refer to the enforced outcome for the focus case as its *justification* status. In contrast to earlier work, we do not assume that all dimension values of the focus case or the precedent cases have been established with certainty: rather, each dimension is assigned a set of possible values. We define a focus case as *stable* if its justification status is the same for every choice of the possible values. For focus cases that are not stable, we study the task of identifying *relevance*: which possible values should be excluded to make the focus case stable? In addition, we introduce the notion of *possibility* to verify if a user can assign an outcome to an unstable focus case without making the case base of precedents inconsistent. We show how the tasks of identifying justification, stability, relevance and possibility can be applied for human-in-the-loop decision support. Finally, we discuss the computational complexity of these tasks and provide efficient algorithms.

**Keywords** Precedential constraint · Decision support · Complexity · Algorithms

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# Reasoning With Incomplete Information

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## **Table of Contents Reasoning With Incomplete Information**

1. Understanding the eBook Reasoning With Incomplete Information
  - The Rise of Digital Reading Reasoning With Incomplete Information
  - Advantages of eBooks Over Traditional Books
2. Identifying Reasoning With Incomplete Information
  - 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 Reasoning With Incomplete Information
  - User-Friendly Interface
4. Exploring eBook Recommendations from Reasoning With Incomplete Information
  - Personalized Recommendations
  - Reasoning With Incomplete Information User Reviews and Ratings
  - Reasoning With Incomplete Information and Bestseller Lists
5. Accessing Reasoning With Incomplete Information Free and Paid eBooks
  - Reasoning With Incomplete Information Public Domain eBooks
  - Reasoning With Incomplete Information eBook Subscription Services
  - Reasoning With Incomplete Information Budget-Friendly Options

6. Navigating Reasoning With Incomplete Information eBook Formats
  - ePub, PDF, MOBI, and More
  - Reasoning With Incomplete Information Compatibility with Devices
  - Reasoning With Incomplete Information Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Reasoning With Incomplete Information
  - Highlighting and Note-Taking Reasoning With Incomplete Information
  - Interactive Elements Reasoning With Incomplete Information
8. Staying Engaged with Reasoning With Incomplete Information
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Reasoning With Incomplete Information
9. Balancing eBooks and Physical Books Reasoning With Incomplete Information
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Reasoning With Incomplete Information
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Reasoning With Incomplete Information
  - Setting Reading Goals Reasoning With Incomplete Information
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Reasoning With Incomplete Information
  - Fact-Checking eBook Content of Reasoning With Incomplete Information
  - 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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