

Integrating Natural Language, Knowledge Representation and Reasoning, and Analogical Processing to Learn by Reading

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Abstract

Learning by reading requires integrating several strands of AI research. We describe a prototype system, Learning Reader, which combines natural language processing, a large-scale knowledge base, and analogical processing to learn by reading simplified language texts. We outline the architecture of Learning Reader and some of system-level results, then explain how these results arise from the components. Specifically, we describe the design, implementation, and performance characteristics of a natural language understanding model (DMAP) that is tightly coupled to a knowledge base three orders of magnitude larger than previous attempts. We show that knowing the kinds of questions being asked and what might be learned can help provide more relevant, efficient reasoning. Finally, we show that analogical processing provides a means of generating useful new questions and conjectures when the system ruminates off-line about what it has read.

Introduction

Learning by reading requires the integration of multiple AI techniques. Natural language processing must be used to transform the text into candidate internal representations. Knowledge representation and reasoning techniques must be used to test this new information, and determine how it is to be integrated into the system's evolving models so that it can be used for effective problem solving. While tremendous strides have been made in individual research areas, few efforts have attempted to integrate them to achieve learning by reading. For example, many researchers are exploring how to mine facts matching particular patterns from the web (e.g., Eltroni *et al* 2005) or to answer specific queries (e.g., Matuszek *et al* 2005).

Working with open texts is certainly an important challenge. However, we are focusing on a different, but equally important, problem: How to handle learning a wide range of conceptual knowledge via reading, including using that knowledge to update a large knowledge base in ways that support effective reasoning. Consequently, we are less concerned with handling a wide variety of surface

forms of text, exploiting instead simplified English. This is based on the observation that, for centuries, human cultures have taught children using simplified language: Less complex grammatical constructions, shorter texts, more scaffolding as to what they are about. We focus on attempting to learn as much as possible from each piece of

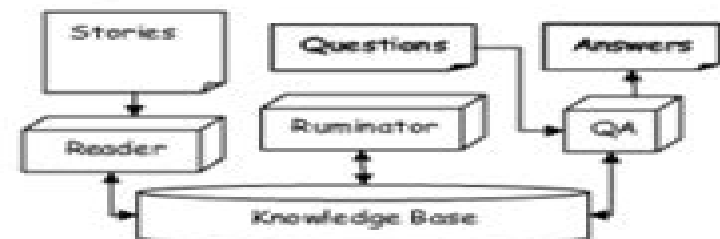


Figure 1: Learning Reader Architecture

text, while placing as few *a priori* limitations on the structure of what is to be learned as possible.

We start by describing the architecture of Learning Reader, and some recent results obtained with the whole system. Then we discuss the ways in which we integrated several AI techniques to achieve this performance. We describe how the *Direct Memory Access Parsing* model (DMAP; Martin & Riesbeck, 1986) tightly integrates natural language processing with the KB and reasoning, unlike the usual pipeline model that splits them up. We outline how knowledge about what is already known and what can be generated by the NL system guides the extraction of axioms for question-answering from the knowledge base. We describe how analogical processing is used to construct generalizations, generate questions, and produce new conjectures during rumination. Finally, we discuss related work and plans for future work.

Learning Reader: The System

Figure 1 shows the architecture of Learning Reader. The starting endowment of the knowledge base has been

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