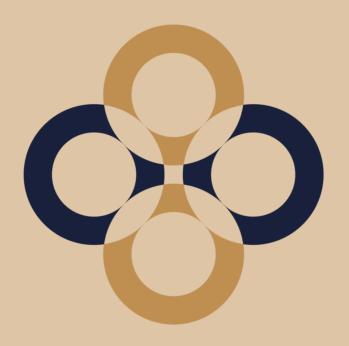


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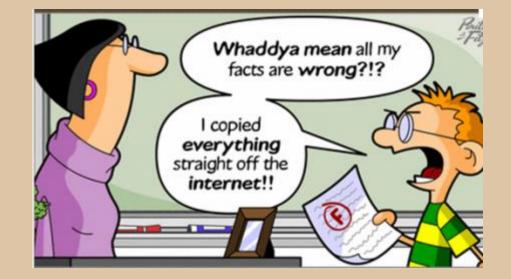
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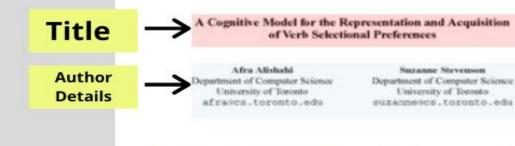
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Abstract

Abstract appropriate verb solution and the argument can possess - a somerrise profile. The second with a syntactic position. The proposed model can learn appropriate verb profiles from a small set of noisy training data, and can use them in simulating human plausibility judgments.

1 Introduction

Introduction

Verbs have preferences for the semantic properties
of the arguments filling a particular role. For example, the verb cor expects that the object receiving
its theme role will have the property of being edible, among others. Learning verb selectional preferences is an important aspect of human language
acquisition, and the acquired preferences have been
shown to guide children's expectations about missing or upcoming arguments in language comprehension (Nation et al., 2003).

Resnik (1996) introduced a statistical approach to learning and use of verb selectional preferences. In this framework, a semantic class hierarchy for words is used, together with statistical tools, to induce a verb's selectional preferences for a particular argument position in the form of a distribution

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over all the classes that can occur in that position.

Resnik's model was proposed as a model of human

learning of selectional preferences that made min-

imal representational assumptions; it showed how

such preferences could be acquired from usage data

and an existing conceptual hierarchy. However, his

and later computational models (see Section 2) have

properties that do not match with certain cognitive

plausibility criteria for a child language acquisition

model. All these models use the training data in

"batch mode", and most of them use information

theoretic measures that rely on total counts from a

corpus. Therefore, it is not clear how the representa-

tion of selectional preferences could be updated in-

crementally in these models as the person receives

more data. Moreover, the assumption that children

have access to a full hierarchical representation of

semantic classes may be too strict. We propose an

alternative view in this paper which is more plausi-

In previous work (Alishahi and Stevenson, 2005),

we have proposed a usage-based computational

model of early verb learning that uses Bayesian clus-

tering and prediction to model language acquisition

and use. Individual verb usages are incrementally

grouped to form emergent classes of linguistic con-

structions that share semantic and syntactic proper-

ties. We have shown that our Bayesian model can

incrementally acquire a general conception of the

somantic roles of predicates based only on expo-

sure to individual verb usages (Alishahi and Steven-

son, 2007). The model forms probabilistic associa-

tions between the semantic properties of arguments,

their syntactic positions, and the semantic primitives

ble in the context of child language acquisition.

447232	0.63	- former	0.56
ang dood an play play watch paid paid paid paid paid paid paid applate read	0.63 0.67 0.74	weight	0.72
don-the	0.67	ARY	0.75
##F	0.74	van h	0.76
play	0.74	alized	0.77
poser.	0.74 0.76 0.77	receive	0.78
watch	6.77	Art .	0.78
part	6.7% 0.80 0.80 0.90 0.90 0.81 0.81 0.82 0.87	- open	0.81
stead	0.80	Taller	0.85
push	0.90	and the	0.87
call	0.90	1 day	0.87
They	0.90	get .	0.87
esplate	0.81	And	0.87
Invest	0.82	give	4.80
Sec.	0.87	Aring	0.89
		wat	0.8*
		veror Alty collab alcow	0.77 0.75 0.75 0.77 0.78 0.78 0.85 0.85 0.87 0.87 0.87 0.87 0.87 0.88 0.88 0.88
Mean	0.76	Month	0.81

Alternating vorbs Non-alternating verbs

Figure 6: Similarity with the base profile for Alternating and Non-alternating verbs.

than verbs with stronger preferences. We use the

cosine measure to estimate the similarity between two profiles p and q: $p \times q$ (ref)

cosine(p,q) = -

The similarity values for the Alternating and Nonalternating verbs are shown in Figure 6. The larger values represent more similarity with the base profile, which means a weaker selectional preference. The means for the Alternating and Non-alternating verbs were respectively 0.76 and 0.81, which confirm the hypothesis that verbs participating in implicit object alternations select more strongly for the direct objects than verbs that do not. However, like Result (1996), we find that it is not possible to set a threshold that will distinguish the two sets of verbs.

5 Conclusions

We have proposed a cognitively plausible model for learning selectional preferences from instances of verb usage. The model represents verb selectional preferences as a semantic profile, which is a probability distribution over the semantic properties that an argument can take. One of the strengths of our model is the incremental nature of its learning mechanism, in contrast to other approaches which learn selectional preferences in batch mode. Here we have only reported the results for the final stage of learning, but the model allows us to monitor the semantic profiles during the course of learning, and compare it with child data for different age groups, as we do

Charts & Equations

References

We have shown that the model can predict appropriate semantic profiles for a variety of verbs, and use these profiles to simulate human judgments of verbargument plausibility, using a small and highly noisy set of training data. The model can also use the profiles to measure verb-argument compatibility, which was used in analyzing the implicit object alternation.

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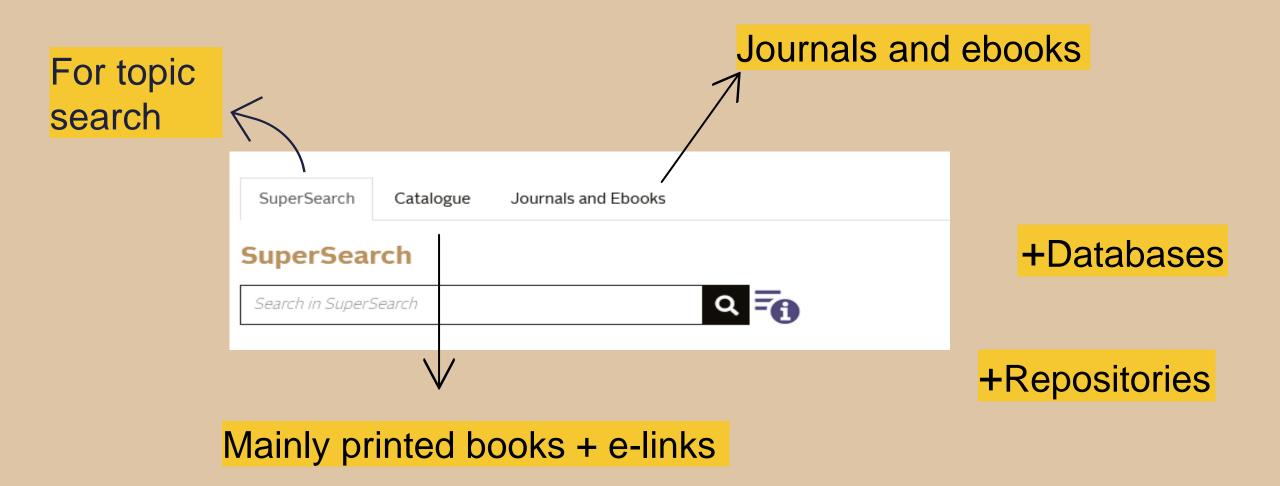
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krisztina.korosi@uni-corvinus.hu & erzsebet.lorinczi2@uni-corvinus.hu