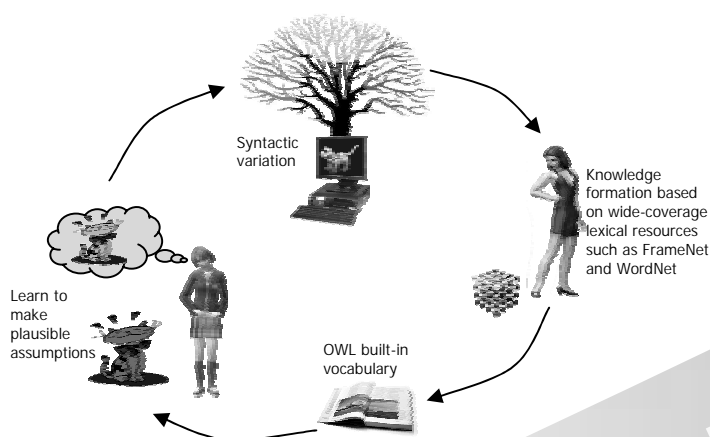


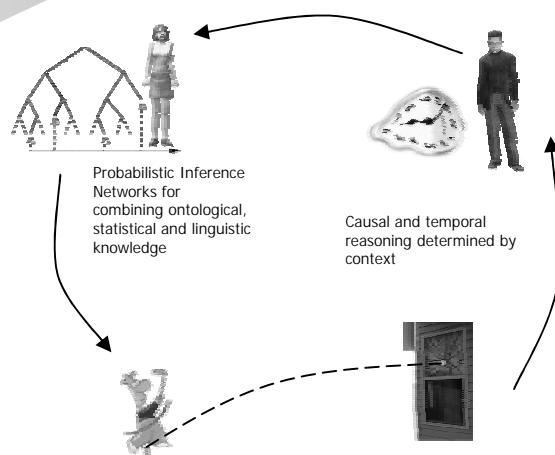
# Pragmatics of Question Answering

## Proceedings of the Workshop



Question

Answering



HLT-NAACL 2004  
May 6-7, 2004  
Boston, Massachusetts, USA

# **Pragmatics of Question Answering**

## **Proceedings of the Workshop**

Edited by  
Sanda Harabagiu and Finley Lacatusu

**HLT-NAACL 2004**  
**May 6-7, 2001**  
**Boston, Massachusetts**

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Phone: +1-570-476-8006

Fax: +1-570-476-0860

[acl@aclweb.org](mailto:acl@aclweb.org)

**INVITED SPEAKER:**

John Prange, ARDA

**PROGRAM COMMITTEE:**

Stefano Bertolo, Cycorp  
Sanda Harabagiu, Language Computer Corporation , Chair  
Vasileios Hatzivassiloglou, Columbia University  
Eduard Hovy, USC/Information Sciences Institute  
Finley Lacatusu, Language Computer Corporation , Co-chair  
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Ellen Voorhees, NIST  
Jinxi Xu, BBN

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## INTRODUCTION

We welcome you to the Workshop of the Pragmatics of Question Answering (Q/A), held in conjunction with the HLT-NAACL 2004 Conference in Boston MA, May 2-7, 2004. This workshop continues the discussion on results of research in Textual Q/A that took place in Workshops at ACL (2001 and 2003), COLING(2002), LREC(2002), EACL(2003) and the AAAI Spring Symposium series (2002 and 2003). It is mainly motivated by the new pragmatic aspects of processing complex questions. Recent examples of complex question emerged in the context of complex scenarios, characterizing the search for complex information in text documents. Several forms of pragmatic processing have started to impact on the design of Q/A architectures. To process complex questions, context and user background have to be modeled. Additionally, the questions need to be decomposed into simpler questions that can be processed by the current technology. The decomposition allows for multiple interactions with the Q/A system, generating a dialog between the user and the Q/A system. This volume contains the papers accepted for presentation at the 2001 Conference on Empirical Methods in Natural Language Processing (EMNLP 2001), a SIGDAT meeting held at Carnegie Mellon University on June 3 and 4, 2001, just preceding the Second Meeting of the North American Chapter of the ACL. Moreover, more complex semantic representations govern the interpretation of questions and the extraction of answers. Each of these aspects of advanced Q/A requires different pragmatic processes. Ten different papers have been accepted for publication in this workshop, each presenting an interesting perspective and proposing solutions to the pragmatics of Q/A.

We are honored to have Dr. John Prange as the keynote speaker of the Workshop. Dr. Prange is the Director of AQUAINT program that fosters research in Advanced Question Answering. The workshop will also contain a panel of discussion, in which leaders from the research field of Q/A have been invited.

This workshop will be a forum for researchers to discuss and present their results in the new area of QA that moves beyond fact-seeking into resolving complex questions. The topics that will be discussed are:

- semantics of scenario-based QA
- dialogs for answering complex questions
- ontological commitments imposed by QA scenarios
- answering questions in context
- multi-modal QA
- processing negation, temporality and scoping in QA
- abductive reasoning in QA
- deep semantic representations and probabilistic reasoning
- user background and its interactions with complex scenarios and QA

A two-day workshop cannot take place without the efforts of many people. We thank the members of the program committee for their reviews; the authors for their submissions and the rapid formatting in camera-ready versions. Our special thanks to HLT-NAACL 2004 General Chair, Julia Hirschberg, Publications Chairs Gina-Anne Levow and Miles Osborne and Workshop Chair Richard Sproat for their support and assistance.

Sanda Harabagiu and Finley Lacatusu  
Workshop Co-Chairs  
March 2004

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# WORKSHOP PROGRAM

## Thursday, May 6

- 9:00-9:15 Welcome
- 9:15-9:55 *Strategies for Advanced Question Answering*  
Sanda Harabagiu and Finley Lacatusu
- 9:55-10:40 *TBD TBD TBD TBD*  
Srini Narayanan and Sanda Harabagiu
- 10:40-11:00 Coffee Break
- 11:00-11:45 *Using answer set programming to answer complex queries*  
Chitta Baral, Michael Gelfond and Richard Scherl
- 11:45-12:30 *Discourse Structure for Context Question Answering*  
Joyce Y. Chai and Rong Jin
- 12:30-2:00 Lunch
- 2:00-2:45 *Intentions, Implicatures and Processing of Complex Questions*  
Sanda Harabagiu, Steven Maiorano, Alessandro Moschitti and Cosmin Bejan
- 2:45-3:30 *A Novel Approach to Focus Identification in Question/Answering Systems*  
Alessandro Moschitti and Sanda Harabagiu
- 3:30-4:00 Coffee Break
- 4:00-5:30 Invited Talk:*Future of Research in Question Answering*  
John Prange
- 5:30-6:00 Discussion

## Friday, May 7

- 9:00-9:45 *HITIQA: Scenario Based Question Answering*  
Sharon Small, Tomek Strzalkowski, Ting Liu, Sean Ryan, Robert Salkin, Nobuyuki Shimizu, Paul Kantor, Diane Kelly, Robert Rittman, Nina Wacholder and Boris Yamrom
- 9:45-10:30 *Experiments with Interactive Question Answering in Complex Scenarios*  
Andrew Hickl, John Lehmann, John Williams and Sanda Harabagiu
- 10:30-11:00 Coffee Break
- 11:00-11:45 *Handling Information Access Dialogue through QA Technologies  
- A novel challenge for open-domain question answering -*  
Tsuneaki Kato, Jun'ichi Fukumoto, Fumito Masui and Noriko Kando
- 11:45-12:30 *Ontological resources and question answering*  
Roberto Basili, Dorte H. Hansen, Patrizia Paggio, Maria Teresa Pazienza and Fabio Massimo Zanzotto
- 12:30-2:00 Lunch
- 2:00-3:00 Panel
- 3:00-3:30 Case Studies - Discussions
- 3:30-4:00 Coffee Break
- 4:00-4:30 Workshop Wrap-Up

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