

Curriculum Vitae

Deepak Ravichandran

2201 Pacific Avenue, #305
San Francisco CA 94115
Phone: (323)-839-7598
Email: ravichan@gmail.com

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Education

Doctor of Philosophy (PhD)

University of Southern California, Los Angeles, USA. 2000-2005.
Research Focus: Natural Language Processing
Thesis Topic: Terascale Knowledge Acquisition
Major: Computer Science
Advisor: Dr. Eduard Hovy

Master of Science

University of Southern California, Los Angeles, USA. 2000-2002.
Major: Computer Science

Bachelor of Engineering

University of Bombay, India. 1996-2000.
First Class with Honors
Major: Computer Engineering

Research Interests

Natural Language Processing, Scaling of Algorithms to very large corpora, Automatic Ontology construction, Machine Translation, Information Retrieval and Machine Learning.

Work Experience

Google Inc., Sept 2005-Present.
Software Engineer.

USC Information Sciences Institute (ISI), Aug 2000-August 2005.
Research Assistant at Information Sciences Institute, working under Dr. Eduard Hovy.
Member of the Natural Language Group at ISI.
Participated in the QA track TREC evaluation in 2001 and 2003.
Participated in the novelty track TREC evaluation in 2003 and 2004.

IBM TJ Watson Research Center, May 2002-August 2002.
Summer internship in the Natural Language group. Worked with Dr. Abraham Ittycheriah, Dr. Salim Roukos and Dr. Martin Ward on Question-Answering

Publications

- Terascale Knowledge Acquisition
PhD thesis, Department of Computer Science, University of Southern California.
Deepak Ravichandran. 2005.
- Randomized Algorithms and NLP: Using Locality Sensitive Hash Functions for High Speed Noun Clustering
In Proceedings of ACL, Ann Arbour, MI.
Deepak Ravichandran, Patrick Pantel, and Eduard Hovy. 2005.
- ISI Novelty Track System for TREC 2004
In Proceedings of the TREC 2004 conference.
Soo-Min Kim, Deepak Ravichandran, and Eduard Hovy. 2004.
- Towards Terascale Knowledge Acquisition
In Proceedings of the COLING conference, Geneva, Switzerland.
Patrick Pantel, Deepak Ravichandran, and Eduard Hovy. 2004.
- The Terascale Challenge
In Proceedings of KDD Workshop on Mining for and from the Semantic Web (MSW-04). Seattle, WA.
Deepak Ravichandran, Patrick Pantel, and Eduard Hovy. 2004.
- Automatically Labeling Semantic Classes
In Proceedings of the HLT-NAACL conference, Boston, MA.
Patrick Pantel and Deepak Ravichandran. 2004.
- How to select an answer string?
To appear as a book-chapter in Advances in Textual Question Answering, Tomek Strzalkowski and Sanda Harabagiu eds., Kluwer
Abdessamad Echihabi, Ulf Hermjakob, Eduard Hovy, Daniel Marcu, Eric Melz and Deepak Ravichandran. 2004.
- Multiple-Engine Question Answering in TextMap
In Proceedings of TREC 2003 conference.
Abdessamad Echihabi, Ulf Hermjakob, Eduard Hovy, Daniel Marcu, Eric Melz and Deepak Ravichandran. 2003.
- Statistical QA-Classifer vs Re-ranker: What's the difference?
In Proceedings of the ACL Workshop on Multilingual Summarization and Question Answering--Machine Learning and Beyond, Sapporo, Japan.
Deepak Ravichandran, Eduard Hovy and Franz Josef Och. 2003.
- Automatic Derivation of Surface Text Patterns for a Maximum Entropy Based Question Answering System
In Proceedings of the HLT-NAACL conference, Edmonton, Canada.
Deepak Ravichandran, Abraham Ittycheriah and Salim Roukos. 2003.
- Using Knowledge to Facilitate Factoid Answer Pinpointing.
In Proceedings of the 19th COLING conference, Taipei, Taiwan.
Eduard Hovy, Ulf Hermjakob, Chin-Yew Lin, Deepak Ravichandran. 2002.

Learning Surface Text Patterns for a Question Answering system.
In Proceedings of the 40th ACL conference. Philadelphia, PA.
Deepak Ravichandran and Eduard Hovy. 2002

A Question/Answer Typology with Surface Text Patterns.
In Proceedings of the DARPA Human Language Technology Conference (HLT). San Diego, CA.
Eduard Hovy, Ulf Hermjakob, and Deepak Ravichandran. 2002.

Toward Semantics-Based Answer Pinpointing.
In Proceedings of the DARPA Human Language Technology Conference (HLT). San Diego, CA.
Hovy, E.H., L. Gerber, U. Hermjakob, C.-Y. Lin, and D. Ravichandran. 2001.

Research Community Service

Reviewer

2005: ACL
2005: ACM Transactions on Asian Language Information Processing
2004: ACL
2004: HLT/NAACL
2004: HLT/NAACL Student Research Workshop
2004: IJCNLP
2003: ACM Transactions on Asian Language Information Processing

Conferences Attended

2004: COLING (Geneva, Switzerland) , HLT/NAACL (Boston, MA)
2003: ACL (Sapporo, Japan) , HLT/NAACL (Edmonton, Canada)
2002: ACL (Philadelphia, PA), HLT (San Diego, CA)

University Service

Student coordinator of AI division at Information Sciences Institute

Date of Birth

24th January, 1979

Nationality

Indian (Currently on H1B VISA)

Languages

English, Hindi, Tamil, Marathi

References

Available on request.