



Natural Language Processing at the National Library of Medicine

What are some of the challenges of using Natural Language Processing in biomedical applications? The National Library of Medicine (NLM) has a mission to facilitate dissemination and exchange of scientific and other information important to the progress of medicine and to the public health. The talk will cover NLM's resources for biomedical and clinical NLP – natural language processing methods to support healthcare by operationalizing clinical information contained in the biomedical literature and clinical narrative.

The talk will describe how these resources help address the challenges: resolving word meanings that are specific to the domain, recognizing the full phrase that corresponds to an acronym, and semantic tagging. We will describe applications of these resources to tasks such as information extraction and question answering. The talk concludes with the opportunities this work presents for practical implications for our health.

Dina Demner-Fushman leads research in information retrieval and natural language processing at National Library of Medicine. Dina earned a doctor of medicine degree from Kazan State Medical Institute, a clinical research Doctorate (PhD) in Medical Science degree from Moscow Medical and Stomatological Institute, and MS and PhD degrees in Computer Science from the University of Maryland. She is the author of more than 120 articles and book chapters in the fields of information retrieval, natural language processing, and biomedical and clinical informatics. She has co-authored a textbook in Biomedical Natural Language Processing published in 2014.

Date: Thursday, April 11, 2019, 8:00 pm.
(Refreshments and networking at 7:30 pm.)
Place: Small Auditorium, Room CS 105
Computer Science Building, Princeton University
Information: Dennis Mancl (908) 285-1066
On-line info: <http://PrincetonACM.acm.org>

All Princeton ACM / IEEE-CS meetings are open to the public. Students and their parents are welcome. There is no admission charge, and refreshments are served.

A pre-meeting dinner is held at 6:00 p.m. at Ruby Tuesday's Restaurant on Route 1. Please send email to princetonacm@gmail.com in advance if you plan to attend the dinner.

