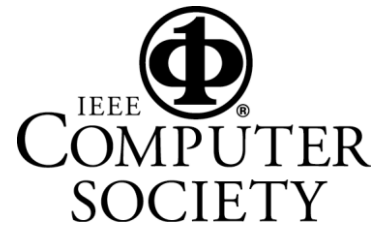


PRINCETON ACM / IEEE-CS CHAPTERS
FEBRUARY 2023 JOINT MEETING



Coopetition in Information Retrieval Research

This talk explores an interesting approach for text retrieval: a community-based approach called “coopetitions.”

Coopetitions are activities in which competitors cooperate for a common good. Community evaluations such as the Text REtrieval Conference (TREC, trec.nist.gov) are prototypical examples of coopetitions in information retrieval, and they have now been part of the field for more than thirty years. This longevity and the proliferation of shared evaluation tasks suggest that, indeed, the net impact of community evaluations is positive.

Coopetitions can improve effectiveness for a retrieval task by setting up a collaborative structure: establishing a research cohort and constructing the infrastructure (including problem definition, test collections, scoring metrics, and research methodology) that the participants need to make progress on the task. They can also facilitate technology transfer and amortize the infrastructure costs. Yet these benefits only accrue when the infrastructure is a good abstraction of the real task. Information retrieval’s test collection paradigm is becoming increasingly untenable as corpus size grows and search engine effectiveness improves. This talk will review what we have learned about test-collection-based evaluation of search engines from TREC and examine the prospects of search evaluation in the future.

Ellen Voorhees is a Fellow at the US National Institute of Standards and Technology (NIST). For most of her tenure at NIST she managed the Text REtrieval Conference (TREC) project, a project that develops the infrastructure required for large-scale evaluation of search engines and other information access technology. Voorhees’ general research focuses on developing and validating appropriate evaluation schemes to measure system effectiveness for diverse user tasks.

Voorhees is a fellow of the ACM, a member of the ACM SIGIR Academy, and has been elected as a fellow of the Washington Academy of Sciences. She has published numerous articles on information retrieval techniques and evaluation methodologies and serves on the review boards of several journals and conferences.

Date:	Thursday, February 16, 2023, 8:00pm
Place:	HYBRID MEETING (both in-person and online)
In Person:	Princeton University Computer Science Building Small Auditorium, Room CS 105 35 Olden Street, Princeton NJ
How to register for the online meeting:	<ul style="list-style-type: none">• Send email to PrincetonACM@gmail.com• OR Register on Meetup.com (http://meetup.com/IEEE-Princeton-Central-Jersey-Section)
Information:	Dennis Mancl (908) 285-1066
On-line info:	http://PrincetonACM.acm.org

Princeton ACM / IEEE-CS meetings for the 2023 season will be “hybrid”. You have a choice: attend the talk in-person, or view the meeting online from home. To join the online, you must register in advance, and you will receive an email with instructions for how to connect to the talk.

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

