**Abstract:**

Prior arts stay at the foundation for future work in academic research. However the increasingly large amount of publications makes it difficult for researchers to completely understand previous works. It is beneficial to have some mechanisms to find the set of core papers for a research area. In this paper, we proposed a collective topic model on three objects including papers, authors and published venues, and modeled objects as "bag of citations". Based on Probabilistic latent semantic analysis (PLSA), authorship, published venues and citation relations are used for quantifying paper importance. Our method discussed milestone paper discovery in different cases. Experimental results indicate our model can better describe paper importance. Authorship and published venues previously have not been discussed have influences on milestone paper discovery.

**About the Speaker:**

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