



Analyzing and Learning from Ranking Data: New Problems and Challenges

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The analysis of ranking data has a long tradition in statistics, and corresponding methods have been used in various fields of application, such as psychology and the social sciences. More recently, applications in information retrieval and machine learning have caused a renewed interest in the analysis of rankings and topics such as "learning to rank" and preference learning. This talk provides a snapshot of ranking in the field of machine learning, with a specific focus on new problems and challenges from a statistical point of view. In addition to problems of unsupervised learning on ranking data and different types of ranking tasks in the realm of supervised learning, this also includes recent work on preference learning and ranking in an online setting.