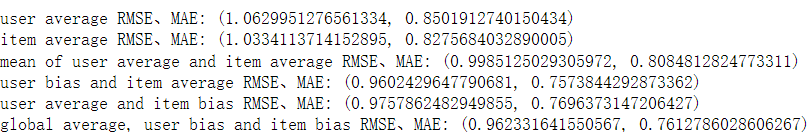
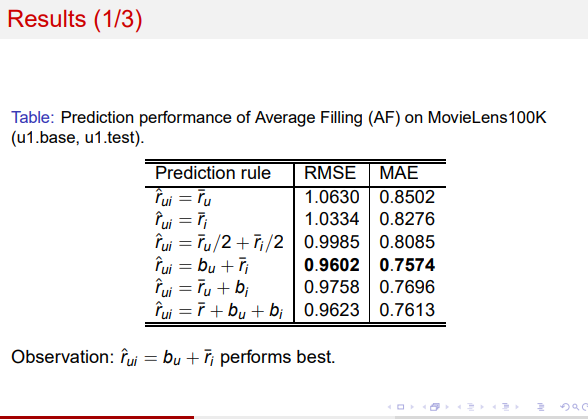
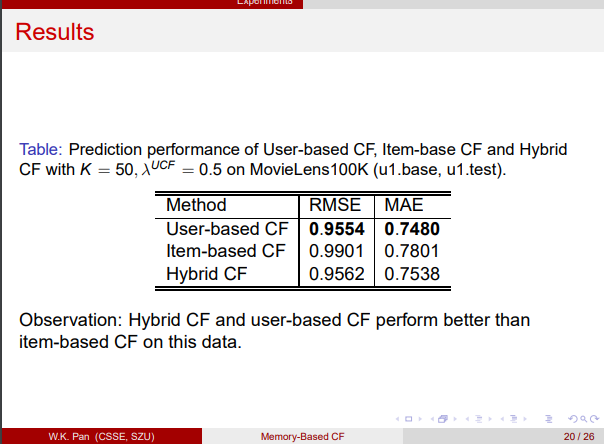
## Average Filling(AF)





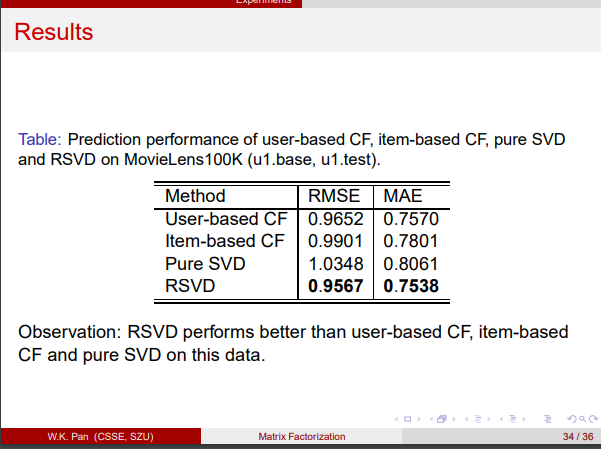
## Memory-Based Collaborative Filtering





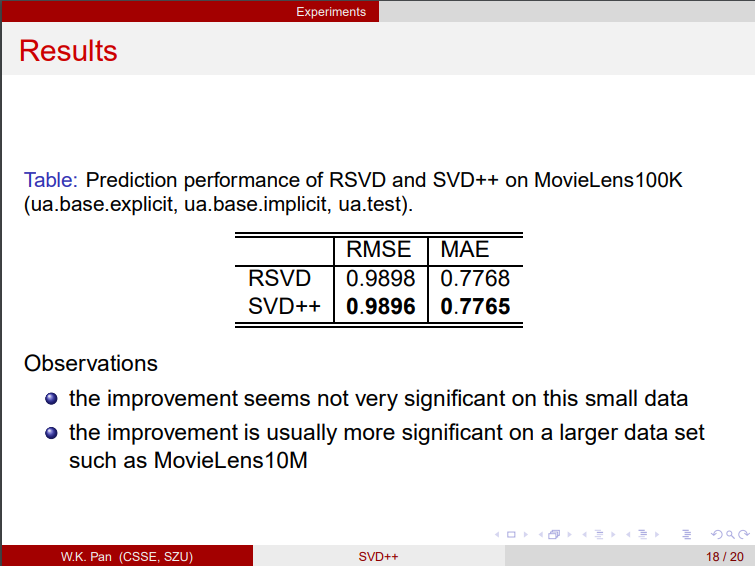
## Matrix Factorization





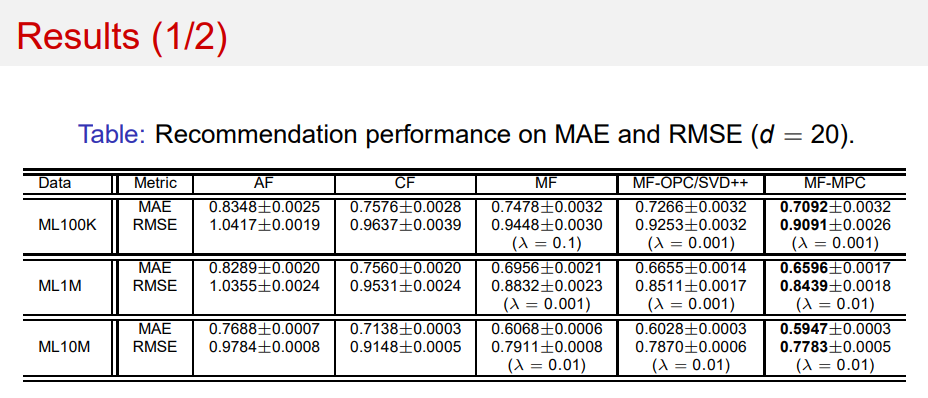
## SVD++





## Matrix Factorization with Multiclass Preference Context





## Ranking-Oriented Evaluation Metrics&PopRank

