











A Dynamic Bayesian Network Click Model For Web Search Ranking











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Method	NDCG
Baseline	0.795
DBN (r _u)	0.748
DBN (a _u only)	0.744
Cascade	0.73
Logistic	0.705
Baseline + DBN	0.875
Baseline + DBN	0.875
Dbservations: DBN close to	baseline.









User mod	el vs."skip above" we" = hack? model = principled approach?
 Similar ad 	ccuracy in pairwise predictions
User mo	del allows more general predictions
 "skip abo different 	we" easier to train (do not need url for a given query at positions)
User mod	el vs. interleaved rankings
User mo	del allows more general predictions
 Interleave result (but 	ed rankings require active manipulation of search engine's ut fewer clicks)
User mod	el vs. ΔDCG prediction [Carterette, Jones]
ADCG n	equires editorial relevance data for training
 Both con 	sider dependence of other clicks on relevance







