Online Learning Setting: (Metrics @K) | Cumulative Performance across all Cluster Pairs 8.0 Heterogeneous User Heterogeneous User Homogeneous User 0.5 Homogeneous User 0.7 0.4 0.6 F1-Score Precision 2.0 0.2 0.4 0.1 0.3 0.0 25 50 75 100 125 175 50 75 125 150 25 100 150 175 0 N Articles Recommended N Articles Recommended Heterogeneous User 0.4 Homogeneous User 0.3 Reca == 0.1 25 125 150 175 100 50 75

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