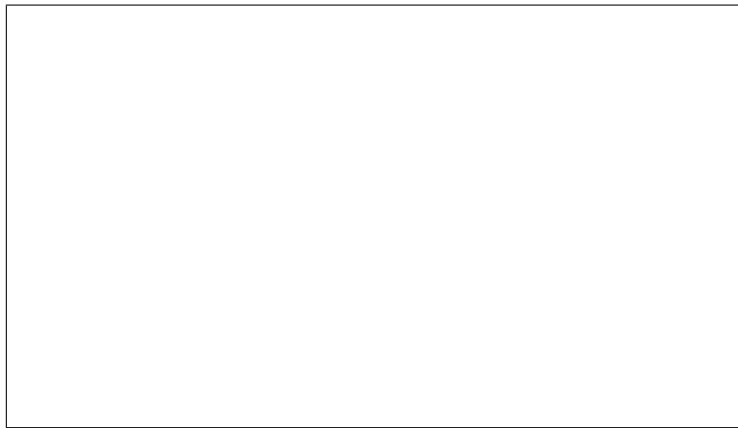


recommendations become feasible in communities suffering from information sparsity, too. Hereby, besides taxonomy-driven profile generation, topic diversification constitutes the second core contribution of our work.

We mined data from one such community, All Consuming (<http://www.allconsuming.net>), and conducted various experiments demonstrating the superior performance over benchmark approaches.

2. RELATED WORK

for every topic d_{k_e} $f(b_k)$ of products b_k



Eventually, product relevance weights $w_i(b_k)$ computed for every b_k

Besides our own, taxonomy-based approach, we also implemented three other recommender algorithms for comparison.

4.1 Data Acquisition

14	1.37057472	0.17335063	2.41760397	1.60240506
15	1.39215949	0.18358535	2.44001489	1.65442854
16	1.40590331	0.19159667	2.44087139	1.70459443
17	1.38630753	0.18093777	2.54088386	1.72781798
18	1.3813139	0.18297222	2.5909104	1.77596723
19	1.37089092	0.19004361	2.57706446	1.7171881
20	1.34550685	0.1827844	2.61306722	1.76000474
21	1.41032046	0.18140914	2.69021522	1.84471085
22	1.39184461	0.19165824	2.69981036	1.91931885
23	1.40053345	0.20192565	2.70627937	1.89828101
24	1.39420985	0.16253384	2.73844159	1.9214737

Figure 3: Weighted recall, using half-life = 10 and = 5

for increasing x

