XStream-Dynamic Temporary

1 Dynamic Evaluation

Window	HST		LODA		XS		XS-1000	
size ϕ	MAP	OAP	MAP	OAP	MAP	OAP	MAP	OAP
1%	0.480 ± 0.178	0.416	0.090 ± 0.028	0.076	0.505 ± 0.138	0.422	0.522 ± 0.153	0.430
5%	0.492 ± 0.179	0.416	0.082 ± 0.014	0.077	0.455 ± 0.135	0.406	0.493 ± 0.134	0.415
10%	0.430 ± 0.024	0.419	0.081 ± 0.010	0.080	0.444 ± 0.037	0.433	0.448 ± 0.037	0.436
25%	0.363 ± 0.024	0.359	0.080 ± 0.001	0.080	0.409 ± 0.009	0.404	0.435 ± 0.013	0.429

Table 1: Mean average precision (MAP) and overall average precision (OAP) on spam-sms. Window-sizes as a percentage of the entire dataset.

Window	HST		LODA ³		XS		XS-1000	
size ϕ	MAP	OAP	MAP	OAP	MAP	OAP	MAP	OAP
1 day	0.331 ± 0.055	0.330	0.329 ± 0.059	0.331	0.436 ± 0.083	0.437	0.451 ± 0.106	0.452
3 days	0.339 ± 0.058	0.329	0.324 ± 0.061	0.345	0.478 ± 0.078	0.479	0.508 ± 0.064	0.509
5 days	0.336 ± 0.059	0.329	0.325 ± 0.049	0.323	0.472 ± 0.050	0.472	0.493 ± 0.055	0.496
7 days ^{1,2}	_	_	_		0.497 ± 0.053	0.502	0.533 ± 0.049	0.530

Table 2: Mean average precision (MAP) and overall average precision (OAP) on url. Window sizes as days of incoming URLs, received at 20,000 URLs per-day.

¹ HST exceeds the available memory on a 1 TB machine.

² LODA did not complete running after x days.

³ For 3-day and 5-day, the numbers are incomplete and reported only over 12 and 18 windows.