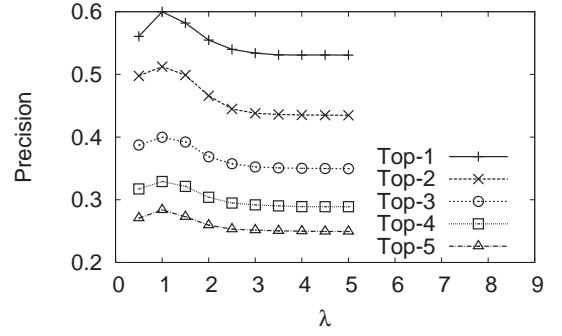
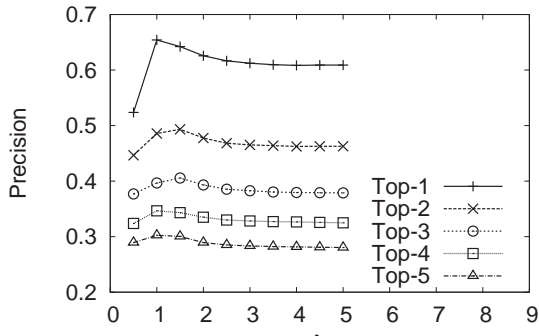


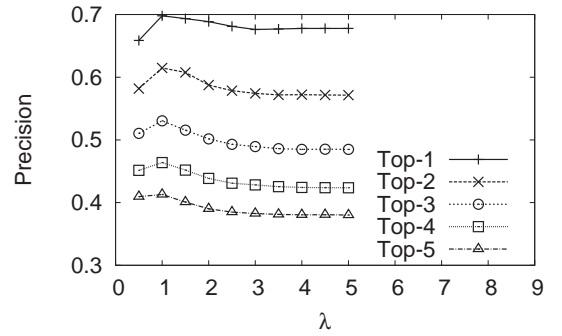
(a) Project rails



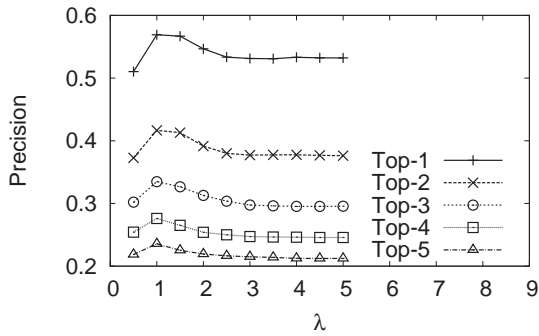
(b) Project symfony



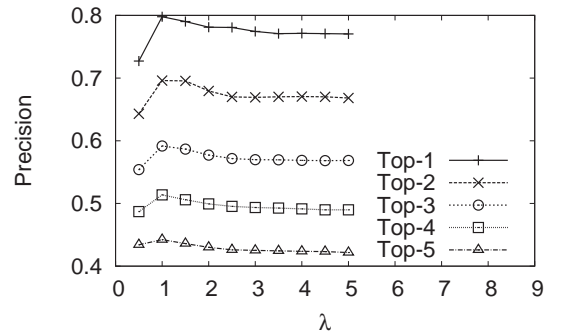
(c) Project scala



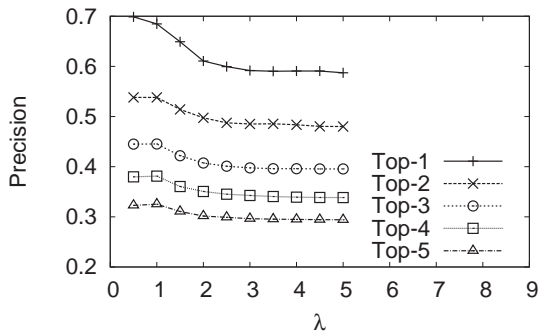
(d) Project bitcoin



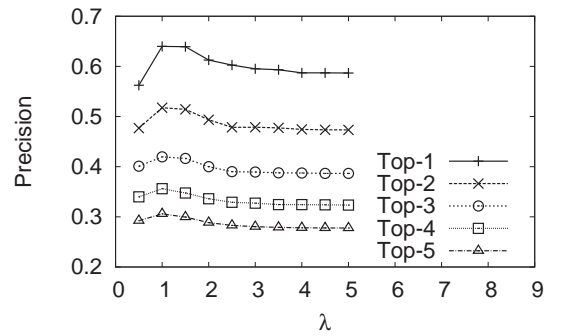
(e) Project zf2



(f) Project akka

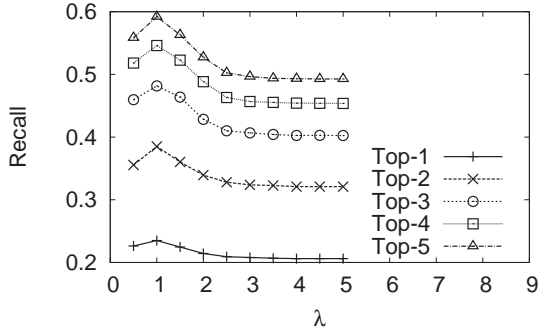


(g) Project cakephp

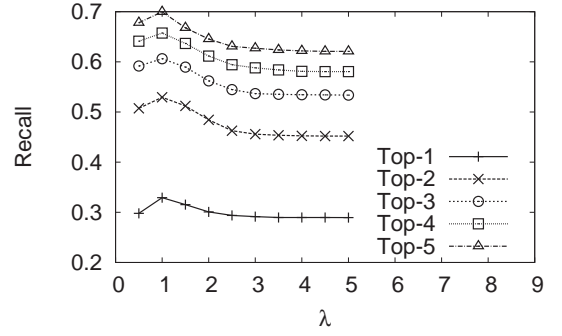


(h) Project gitlabhp

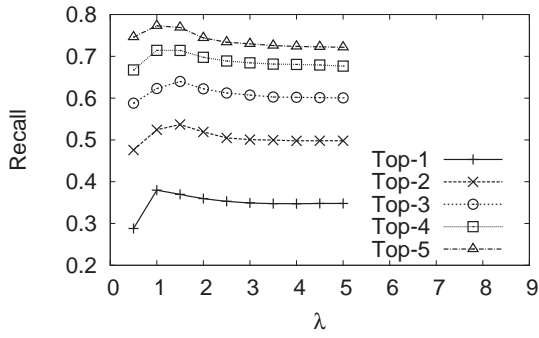
Figure 4: Precisions with time-decaying parameter  $\lambda$  varying from 0.5 to 5 for the activeness based approach



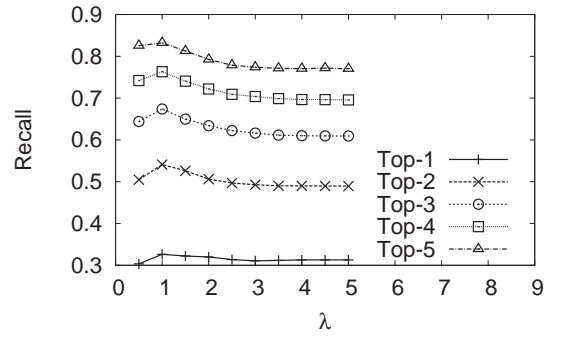
(a) Project rails



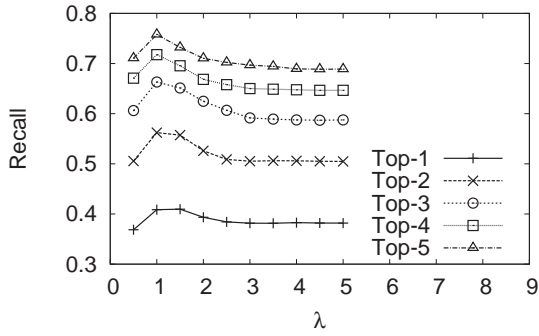
(b) Project symfony



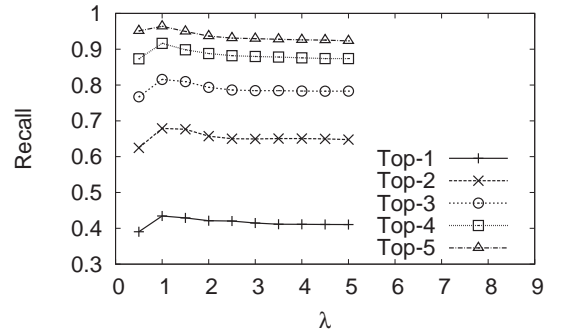
(c) Project scala



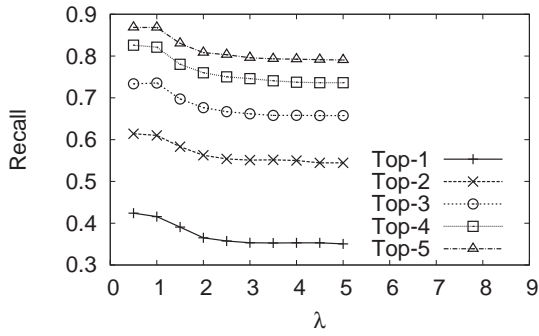
(d) Project bitcoin



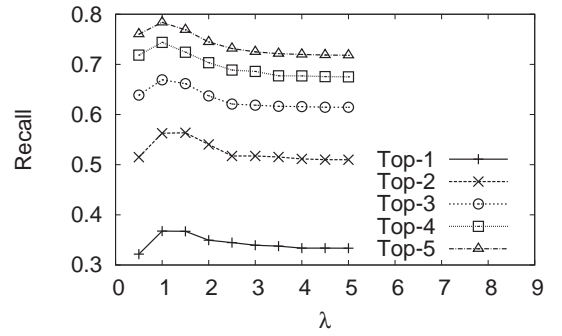
(e) Project zf2



(f) Project akka



(g) Project cakephp



(h) Project gitlabhp

Figure 5: Recalls with time-decaying parameter  $\lambda$  varying from 0.5 to 5 for the activeness based approach