

REPORT

QUERY #1

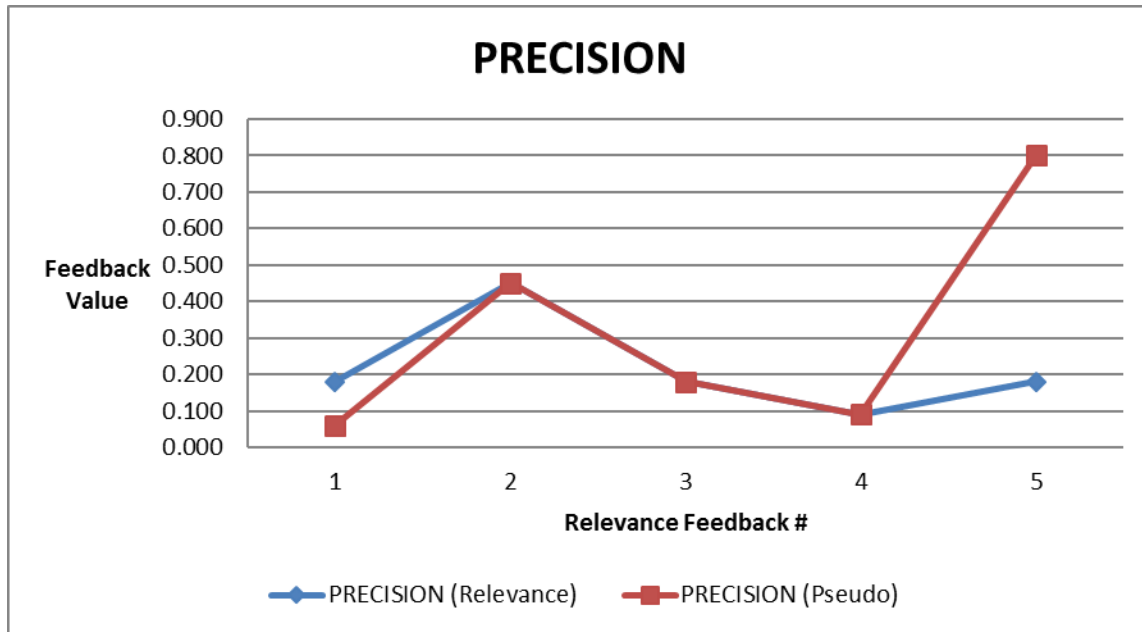
QUERY_ID: 6

Relevance Feedback

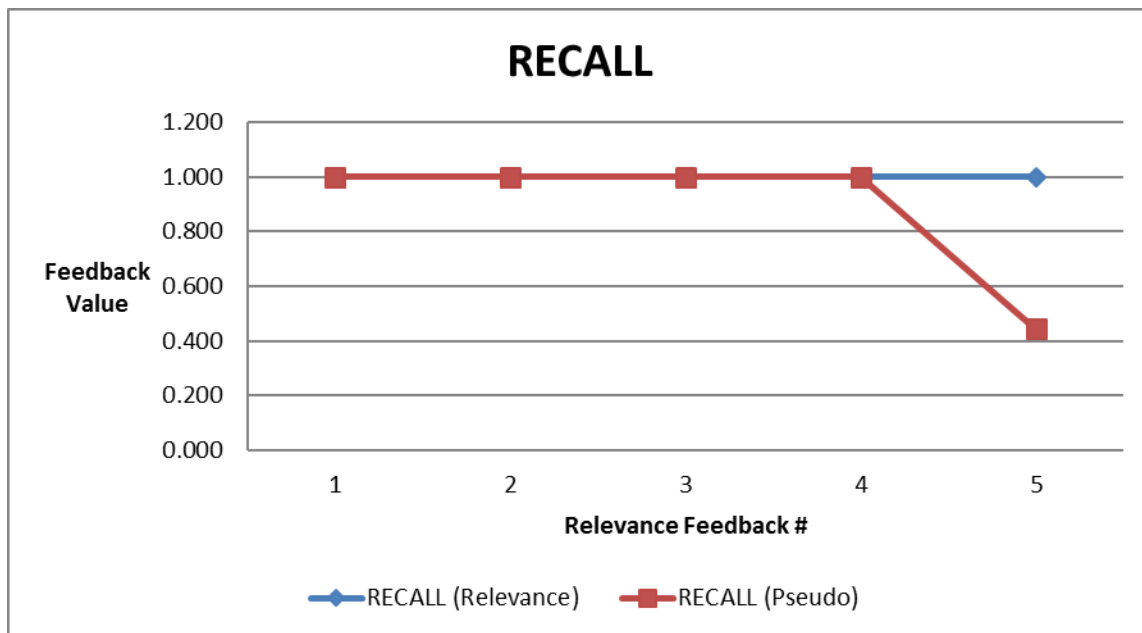
RELEVANCE FEEDBACK #	# OF RETERIEVED DOCS	PRECISION	RECALL	MAP	+ve docvs	-ve docs
1	50	0.180000	1.000000	0.854750	257	400
2	20	0.450000	1.000000	0.854750	268 370	39 78
3	50	0.180000	1.000000	0.854750	308 324 257	10
4	100	0.090000	1.0	0.854750	326 308	400
5	50	0.180000	1.0	0.854750	400 47 288	11

Pseudo Relevance

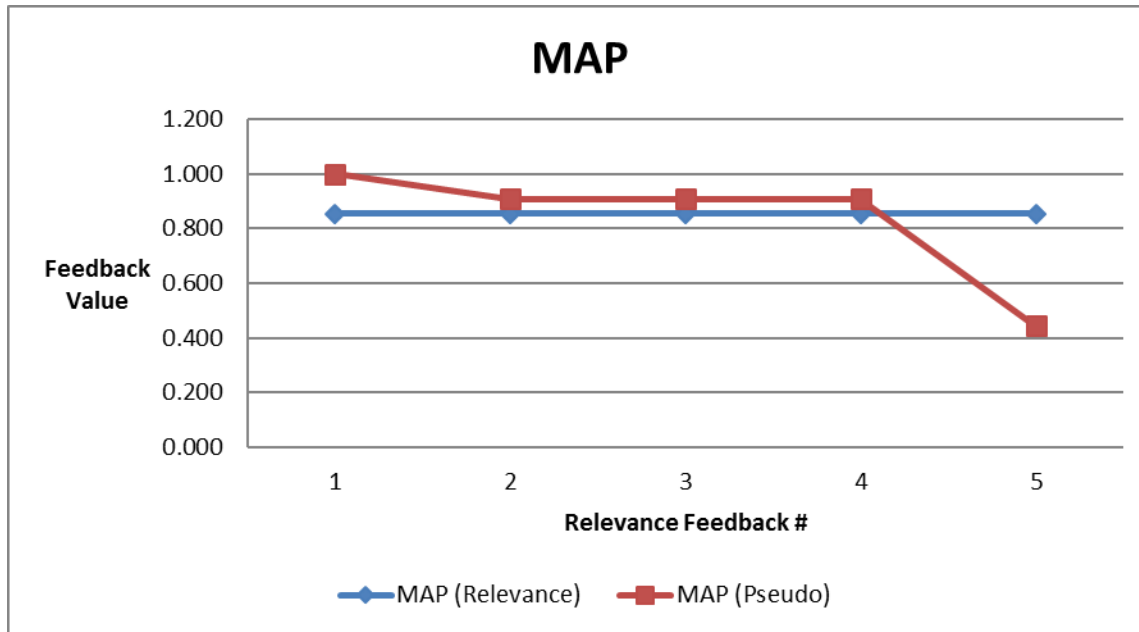
RELEVANCE FEEDBACK #	# OF RETERIEVED DOCS	PRECISION	RECALL	MAP
1	50	0.060000	1.000000	1.000000
2	50	0.180000	1.0	0.909295
3	20	0.450000	1.0	0.909295
4	100	0.090000	1.0	0.909295
5	50	0.800000	0.444444	0.444444



For pseudo relevance the precision value is increasing with increase in the number of Rocchio iterations after a certain number of iterations.



The recall value of pseudo relevance is decreasing after the fourth iteration.



The MAP values remain almost same after every iteration but decreases after the forth iteration.

QUERY #2

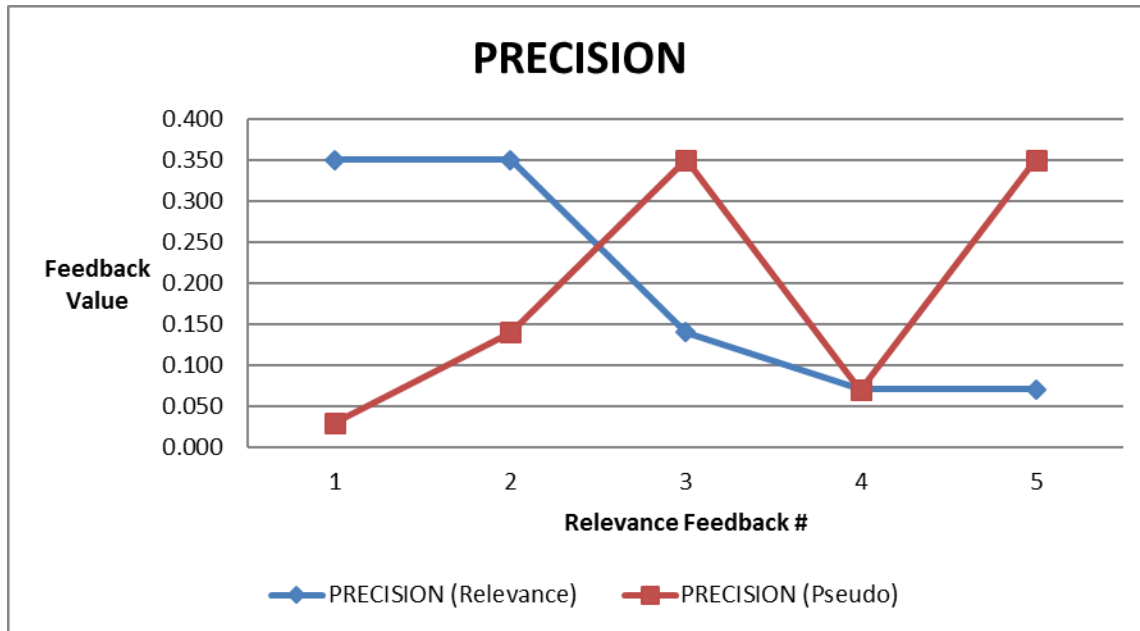
QUERY_ID: 12

RELEVANCE FEEDBACK #	# OF RETERIEVED DOCS	PRECISION	RECALL	MAP	+ve docs	-ve docs
1	20	0.350000	1.0	0.937925	156	89
2	20	0.350000	1.0	0.937925	61 90 159	360
3	50	0.140000	1.0	0.937925	12	78
4	100	0.070707	1.0	0.937925	56 232	100
5	50	0.070707	1.0	0.937925	204 65 39	400

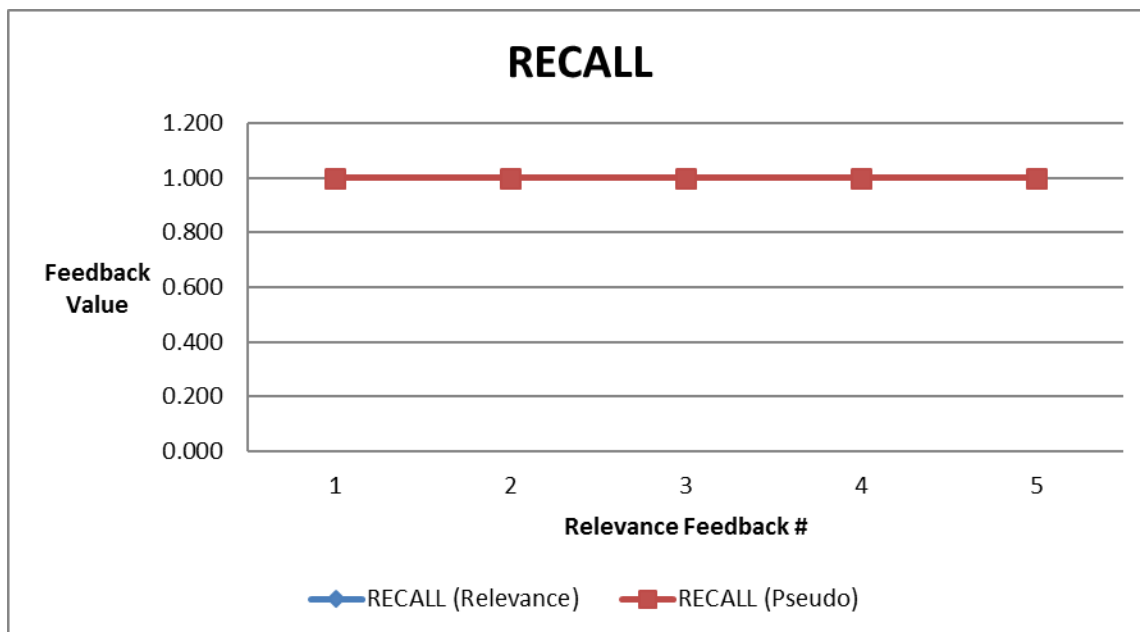
Pseudo Relevance

RELEVANCE FEEDBACK #	# OF RETERIEVED DOCS	PRECISION	RECALL	MAP
1		0.030303	1.0	1.0
2	50	0.140000	1.0	0.937925

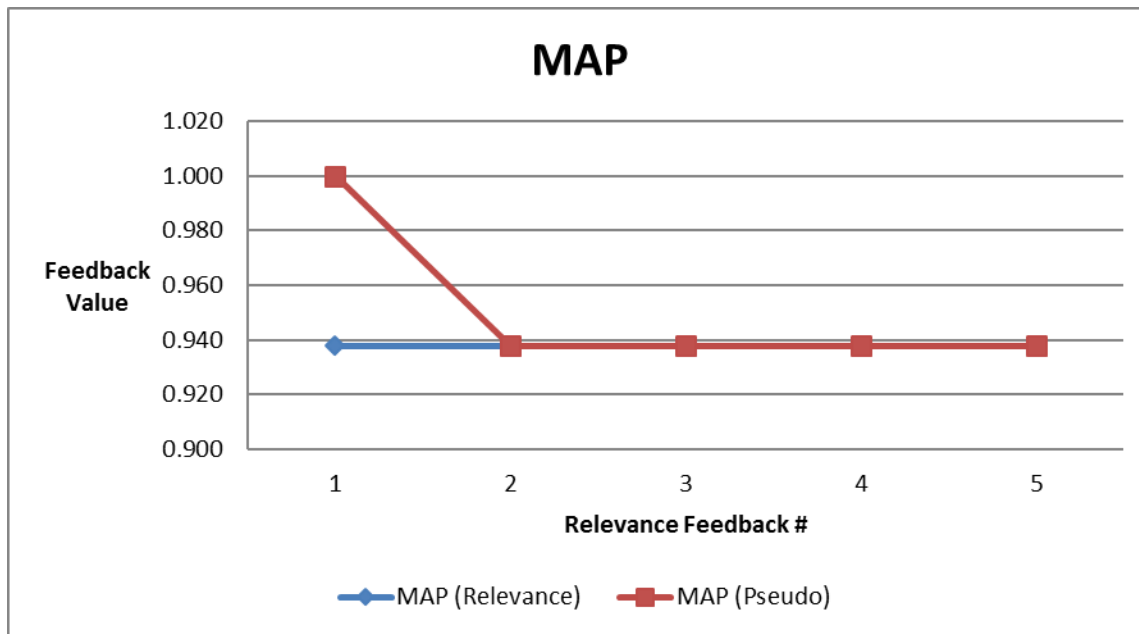
3	20	0.350000	1.0	0.937925
4	100	0.070000	1.0	0.937925
5	200	0.035000	1.0	0.937925



In this query the precision of the relevance feedback is decreasing as compared to the pseudo relevance feedback.



The recall value of both the methods are exactly same.



The MAP value is same for both the methods after the first iteration.

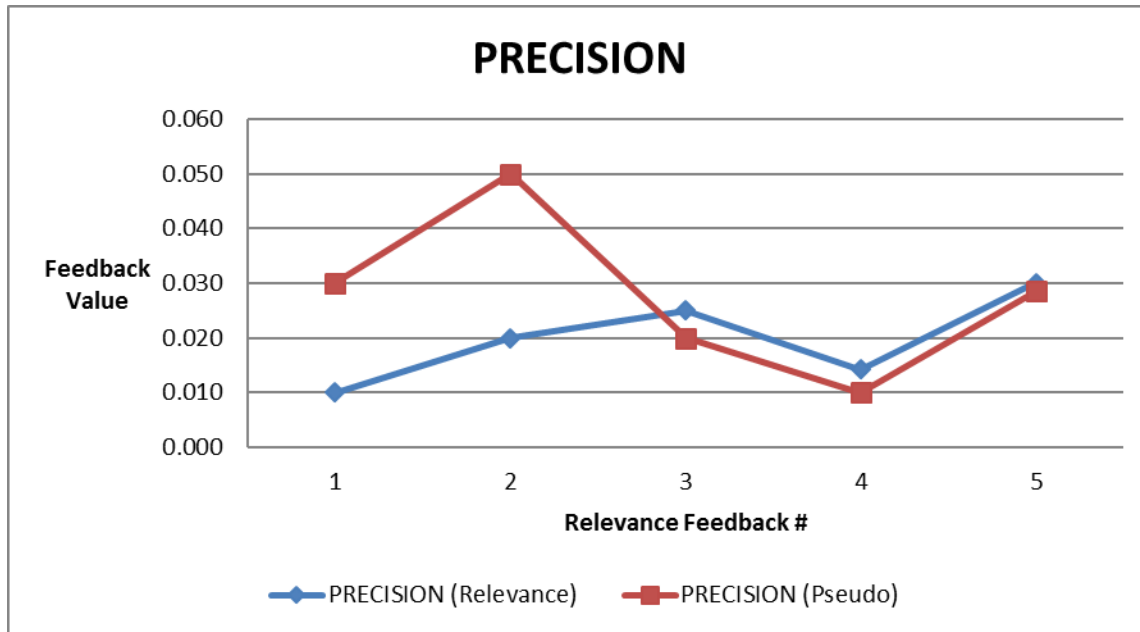
QUERY #3

QUERY_ID: 77

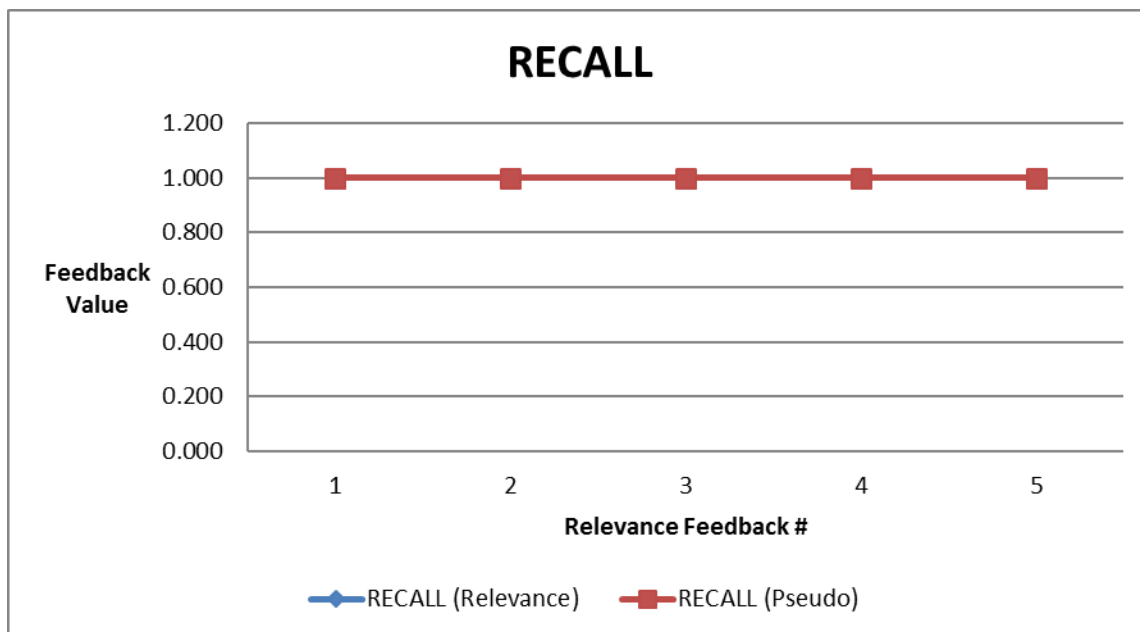
RELEVANCE FEEDBACK #	# OF RETERIEVED DOCS	PRECISION	RECALL	MAP	+ve Docs	-ve Docs
1	100	0.010000	1.0	0.5	173 39	90
2	5	0.020000	1.0	0.5	303 65 260	400 202
3	10	0.025	1.0	0.5	223	65
4	20	0.014286	1.0	0.5	65 243	89
5	50	0.030000	1.0	1.0	53 78 12	43

Pseudo Relevance

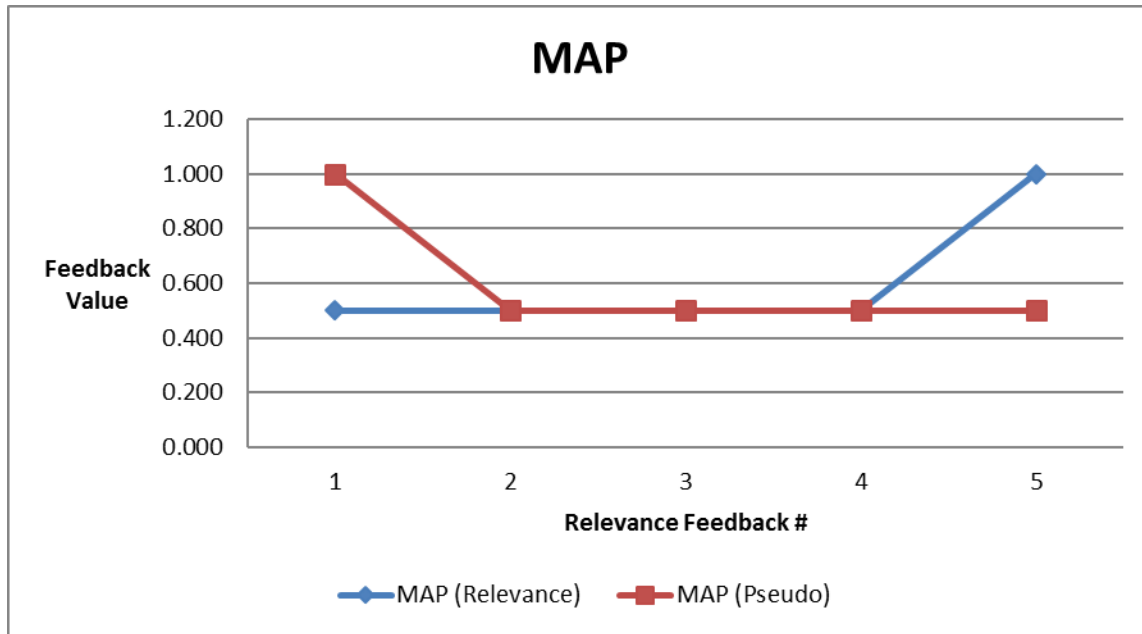
RELEVANCE FEEDBACK #	# OF RETERIEVED DOCS	PRECISION	RECALL	MAP
1		0.030000	1.0	1.0
2	20	0.050000	1.0	0.5
3	50	0.020000	1.0	0.5
4	100	0.010000	1.0	0.5
5	20	0.028571	1.0	0.5



The precision value for both the methods increase after the first iteration and decrease after the second iteration symmetrically.



Recall of both the methods are same for this query.



MAP values remain same after the first iteration.

QUERY DRIFT: