

Appendix D: Significance testing for retrievals

Table 4: BM25 Dirichlet Smoothing Significance Testing

Language:	NDCG@5	NDCG@10	P@5	P@10
English	0.1352	0.009701*	0.03268*	0.006253*
French	0.3654	0.2651	0.5865	0.3492
German	0.2642	0.02866*	0.1932	0.007999*
Italian	0.1039	0.05271	0.141	0.09404
Persian	0.02992*	0.04502*	0.02688*	0.2144
Portuguese	0.9624	0.8346	0.8879	0.8034
Arabic	0.02384*	0.003595*	0.01381*	0.003324*
Czech	0.3142	0.003856*	0.05724	0.0006458*

Table 5: VSM BM25 Significance Testing

Language:	NDCG@5	NDCG@10	P@5	P@10
English	0.00002596*	0.0001051*	0.00009201*	0.0006419*
German	0.00004859*	0.00007538*	0.00009608*	0.0006228*
French	0.0001087*	0.00003883*	0.0001254*	0.00033*
Italian	0.004072*	0.0009673*	0.001466*	0.002273*
Portuguese	0.0000876*	0.00003539*	0.000581*	0.0001982*
Persian	0.002788*	0.0003151*	0.02707*	0.001626*
Arabic	0.0005222*	0.0003409*	0.0002715*	0.0006107*
Czech	0.0003174*	0.0003174*	0.000546*	0.005044*