Additional Information for RQ 2 in the paper

LAST prediction model

*Δs*

*ΔF*

(b) Difference (OT) in terms of s

(a) Difference (OT) in terms of *F*

(b) Δs

*usage frequency*

*usage frequency*

Additional experimental results for RQ3 in the paper

*Δs*

*usage frequency*

(a) ΔF

*usage frequency*

(b) Δs

Additional Experimental Results for RQ4

**LAST prediction model**



*usage frequency*

*ΔF*

*Δs*

(b) Δs

(a) ΔF

*usage frequency*

**BM(5) prediction model**



(b) Δs

(a) ΔF

**BM(10) prediction model**

 

*ΔF*

*Δs*

(b) Δs

(a) ΔF

**SEM Prediction Model**



*Δs*

*ΔF*

(b) Δs

(a) ΔF

Additional Information for RQ 3

**LAST prediction model**



(b) Δs

(a) ΔF

**BM(5)**

****

(b) Δs

(a) ΔF

**Prediction Model BM(10)**

****

(b) Δs

(a) ΔF

**Prediction Model SEM**

****

(b) Δs

(a) ΔF