

## LIST OF TABLES

Table 2-1 The categorization of resources returned by recommender system.....	13
Table 3-1: Example of user, resources and tags usage.....	16
Table 3-2: Example of user to user relation .....	16
Table 3-3: Random Walk with Restart example computation .....	24
Table 3-4: Data sample of user_contacts in hetrec2011-delicious-2k.zip dataset .....	26
Table 3-5: Data sample of bookmarks in hetrec2011-delicious-2k.zip dataset .....	26
Table 3-6: Data sample of tags in hetrec2011-delicious-2k.zip dataset.....	26
Table 3-7: Data sample of user_taggedbookmarks in hetrec2011-delicious-2k.zip dataset.....	26
Table 3-8: Data sample of bookmark_tags in hetrec2011-delicious-2k.zip dataset ..	26
Table 3-9: Statistics of hetrec2011-delicious-2k dataset .....	27
Table 3-10: Data sample of user_friends in hetrec2011-lastfm-2k.zip dataset.....	27
Table 3-11: Data sample of artists in hetrec2011-lastfm-2k.zip dataset.....	28
Table 3-12: Data sample of user_tags in hetrec2011-lastfm-2k.zip dataset .....	28
Table 3-13: Data sample of user_taggedartists in hetrec2011-lastfm-2k.zip dataset.	28
Table 3-14: Data sample of user_artists in hetrec2011-lastfm-2k.zip dataset .....	28
Table 3-15: Statistics of hetrec2011-lastfm-2k dataset.....	28
Table 4-1: Average Result of Hybrid Method on Various Parameter Values $\beta$ , $\gamma$ , $\delta$ , and $\epsilon$ .....	32
Table 4-2: Accuracy of recommendation by CBF method .....	33
Table 4-3: Accuracy of recommendation by RWR method.....	34
Table 4-4: Accuracy of recommendation by CBF*RWR method.....	35
Table 4-5: Accuracy of recommendation by Hybrid method .....	36
Table 4-6: Result of precision for p@1, p@5 and p@10 recommendations .....	38
Table 4-7: The result of recall for p@1, p@5, and p@10 recommendations .....	39
Table 4-8: Result of F1 for p@1, p@5, and p@10 recommendations .....	39
Table A-1: Result of Hybrid Method with $\beta=0.6$ , $\gamma=0.3$ , $\delta=0.1$ , $\epsilon=1.0$ .....	47
Table A-2: Result of Hybrid Method with $\beta=0.6$ , $\gamma=0.3$ , $\delta=0.1$ , $\epsilon=0.6$ .....	47
Table A-3: Result of Hybrid Method with $\beta=0.6$ , $\gamma=0.3$ , $\delta=0.1$ , $\epsilon=0.3$ .....	48
Table A-4: Result of Hybrid Method with $\beta=0.6$ , $\gamma=0.3$ , $\delta=0.1$ , $\epsilon=0.0$ .....	49
Table A-5: Result of Hybrid Method with $\beta=0.6$ , $\gamma=0.1$ , $\delta=0.3$ , $\epsilon=1.0$ .....	50

---

Table A-6: Result of Hybrid Method with $\beta=0.6, \gamma=0.1, \delta=0.3, \varepsilon=0.6$ .....	50
Table A-7: Result of Hybrid Method with $\beta=0.6, \gamma=0.1, \delta=0.3, \varepsilon=0.3$ .....	51
Table A-8: Result of Hybrid Method with $\beta=0.6, \gamma=0.1, \delta=0.3, \varepsilon=0.0$ .....	51
Table A-9: Result of Hybrid Method with $\beta=0.3, \gamma=0.6, \delta=0.1, \varepsilon=1.0$ .....	53
Table A-10: Result of Hybrid Method with $\beta=0.3, \gamma=0.6, \delta=0.1, \varepsilon=0.6$ .....	53
Table A-11: Result of Hybrid Method with $\beta=0.3, \gamma=0.6, \delta=0.1, \varepsilon=0.3$ .....	54
Table A-12: Result of Hybrid Method with $\beta=0.3, \gamma=0.6, \delta=0.1, \varepsilon=0.0$ .....	54
Table A-13: Result of Hybrid Method with $\beta=0.1, \gamma=0.6, \delta=0.3, \varepsilon=1.0$ .....	56
Table A-14: Result of Hybrid Method with $\beta=0.6, \gamma=0.3, \delta=0.1, \varepsilon=0.6$ .....	56
Table A-15: Result of Hybrid Method with $\beta=0.6, \gamma=0.3, \delta=0.1, \varepsilon=0.3$ .....	57
Table A-16: Result of Hybrid Method with $\beta=0.6, \gamma=0.3, \delta=0.1, \varepsilon=0.0$ .....	57
Table A-17: Result of Hybrid Method with $\beta=0.1, \gamma=0.3, \delta=0.6, \varepsilon=1.0$ .....	59
Table A-18: Result of Hybrid Method with $\beta=0.1, \gamma=0.3, \delta=0.6, \varepsilon=0.6$ .....	59
Table A-19: Result of Hybrid Method with $\beta=0.1, \gamma=0.3, \delta=0.6, \varepsilon=0.3$ .....	60
Table A-20: Result of Hybrid Method with $\beta=0.1, \gamma=0.3, \delta=0.6, \varepsilon=0.0$ .....	60
Table A-21: Result of Hybrid Method with $\beta=0.3, \gamma=0.1, \delta=0.6, \varepsilon=1.0$ .....	62
Table A-22: Result of Hybrid Method with $\beta=0.3, \gamma=0.1, \delta=0.6, \varepsilon=0.6$ .....	62
Table A-23: Result of Hybrid Method with $\beta=0.3, \gamma=0.1, \delta=0.6, \varepsilon=0.3$ .....	63
Table A-24: Result of Hybrid Method with $\beta=0.3, \gamma=0.1, \delta=0.6, \varepsilon=0.0$ .....	63