

Weeks Report (2018/03/1 – 2018/03/14)

Issued by: Sijin Cheng

2018-03-14

## Time Slot 2

### **What has been done in the past two weeks?**

Last week, our focus has been to adjust the technical method of the project to make it more feasible, and write the first draft of introduction part and theory part

In short:

1. Has finished my thesis proposal report for the HIT
2. Research technical keys (text representation, feature extraction, similarity calculation)
3. Complete the first draft of the introduction part
4. Complete the first draft of the theory part
5. Implement different feature selection methods

### **What is planned to be done in the next two weeks?**

Focus: Implementation and test, start to write the method part

In short:

1. Extract features for title and abstract separately
2. Cluster, label the existing data manually (it will be available from our customer)
3. Calculate similarity and rank the patents (it is implemented on existing data now, but it will be implemented on new data)
3. Predict feedback score for new query results (if time enough)
4. Start to evaluate: compared the new results with the original query results (whether the proportion of irrelevant results is decreased), compare the score prediction (or ranking) with the real score (available from the customer).
5. Start to write the method part

### **Which problems exist?**

We had some problems with our project, but we have found solutions by literature research

### **Time report**

Is attached to the next page of this document.

SIJIN CHENG

Master thesis

TOTAL TIME (h) 55  
hours needs to be spent to fulfill 800 hours 700

Second Month: 2018.3									
Week 3 (3.1 - 3.7)					Week 4 (3.8 - 3.14)				
Date	Time (h)	Activity	Description of activity	participants	Date	Time (h)	Activity	Description of activity	participants
3.1 - 2018	4	education	literature research	me	3.8 - 2018	4	draw diagram	functional analysis	me
3.1 - 2018	3	writing	introduction	me	3.8 - 2018	2	writing	thesisi proposal	me
3.2 - 2018	5	education	literature research	me	3.9 - 2018	5	writing	thesisi proposal	me
3.2 - 2018	2	writing	introduction	me	3.12 - 2018	2	education	literature research	me
3.5 - 2018	3	reading and writing	introduction part	me	3.12 - 2018	3	writing	polish and template	me
3.5 - 2018	2	typography	Latex	me	3.13 - 2018	4	search informa	feature selection	me
3.6 - 2018	4	research	techniques selection	me	3.13- 2018	3	coding	feature abstract	me
3.6 - 2018	2	writing	data collection writing	me	3.14 - 2018	1	writing	time slot report	me
3.7 - 2018	4	reading and writing	text presentation writi	me					
3.7 - 2018	2	research	literature reseach	me					