Demands on task recommendation in crowdsourcing platforms – the worker's perspective

Survey Design Documentation for RecSys'15 CrowdRec Submission

1. Overall Survey Design

The survey shown on the following pages was conducted in order to gather data about the preferences of workers with respect to task recommendation in crowdsourcing platforms. Further details about the data and the analysis can be found in [1].

The survey consists of 6 pages shown in Figure 1. The first page is used to introduce the idea of task recommendation to the worker. The main section is framed by two pages asking for demographics and personal data of the worker. These test questions are (not obviously) designed redundant in order to identify spammers. The main part of the survey consists of three pages. The first to vote for given recommendation criteria, the second to rank recommendation criteria and the third one to give additional opinions about the most important recommendation criteria used.



Figure 1: Design overview

2. Introduction

The first page shown in Figure 2 introduced the idea of task recommendation for crowdsourcing platforms and had to be kept open for at least 60 seconds before the worker was allowed to move on.



Figure 2: Introduction

3. Worker's characteristics (1)

The second page shown in Figure 3 asked the worker for some personal data about demographics and their activity within the crowdsourcing platform. Some answers of the questions shown in the figure can be evaluated by comparing the data with data from the platform provider. Others can be calculated from additional questions given on the last page of the survey. These answers were used as test questions in order to identify spammers.

16%		KOM – Multime Communications L		TECHNISC UNIVERSI DARMSTA	TÄT
Questions about your personal platforms	experience	with cro	owdsourcin	g	
Please provide some information about your	person:				
Gender:	- Please select -	~			
Age (in years):	- Please enter -				
Country of origin:	- Please select -				
Country of residence:	- Please select -				
Please provide some information about how	you work with cro	owdsourcing	g platforms:		
How many years have you been u	ising crowdsourcing pla	tforms?	Please select -		
How many tasks do you acc	ept on an average worki	ing day?	Please select -		
How many days per week do you wor	k on crowdsourcing pla	tforms?	Please select -		
How long do you search for a task be	fore you accept it (in se	conds)?	Please enter -		
Which share of your t	asks gets rejected (in p	ercent)?	Please select -		
				N	lext ►

Figure 3: Worker's characteristics (1)

4. Voting for Recommendation Criteria

On page four, partly shown in Figure 4, the worker had to choose from nine different recommendation criteria. The workers were allowed to choose exactly four criteria from the list.

The order of the given criteria was randomized and therefore different for each of the surveys.

	33%	KOM - Multimedia Communications Lab	TECHNISCHE UNIVERSITÄT DARMSTADT
Pre	eferred task recommendation	S	
	uld like to know which kind of recommendation you would like to nendation.	use in a future crowdsourcing platform. Please select your favorit	e 4 kinds of
	Task offering the most money Latin man cognition denies forum X Rate commonsment Folder communication for the forum Bacritan minis Faction models	This task offers the highest payment.	
	Image: Task offered by best rated requester Internet: holing Dignup +1 Sign dip on Endry+120 Internet: horizon Magi: Hinde of articles Dignup Internet: +100dap	A task from a requester who was rated by other worke	rs to be the best one.
	Task taking the least time Post+部部に+部部にないたちま Subcrest Motole Support in Traffic HK 不可能を確認を定てた。 Konse Extension for exchange Crowsi 語golds for ion	This task will be completed the fastest.	

Figure 4: Voting for recommendation criteria

5. Ranking Recommendation Criteria

Figure 5 partly shows page five of the survey. Here the worker was presented with the same recommendation criteria as for voting on page four, but in a randomly different order. Now the worker was supposed to rank the four most important recommendation criteria. Each rank could only be given once.

The redundancy between pages four and five was deliberate chosen in order to identify spammers. The assumption was, that workers should actually choose the same four recommendation criteria for ranking as they voted for on page four. However, analyzing the other fields for spam detection revealed that many well-answered submissions showed less than 3 matches between voting and ranking. Therefore, all submissions with at least two matches were considered valuable. But only those ranks were taken into account for data analysis, where it matched a vote within the same submission.

		KOM – Multimedia Communications Lab	TECHNISCHE UNIVERSITÄT DARMSTADT
50%			
Rank of task recommendatior			
tank of task recommendation	15		
lease rank your 4 chosen recommendations from 1 (most import	ant) to 4 (least important).		
! Task done by workers who are similar to you	Rank: 1 2 3	(4)	
		$\mathbf{\circ}$	
Constitut and States +1			
e Question + 1966 Post -> 1966 stimum Interast			
8ණා නිදා කිරීමා කර්මා 8ණා නිලා කරීමා			
During services a service service service service services and services s			
A task which was completed by workers who completed			
similar jobs like you.			
		^	
1 Task best rated by others	Rank: 1 2 3	4	
19489 386 2000 250 251			
and a serie series and a series a			
Survey and according to research			
Fiver As agestion			
and the delig and setterest			
Other workers rated this task to be the best one.			
		\mathbf{O}	
Task different to your previous task	Rank: 1 2 3		
ter +430 ring Signer +1			
ige dopign stop in an interest			
In an a state state of the stat			
Interest at 4590			
ping. Signed			
A task which is different to the one you recently completed			

6. Open Question

After having been introduced to task recommendation and the criteria we proposed for the recommendation, the free text question on page six shown in Figure 6 allowed the worker to state their current behavior. Many workers used this either to emphasize their opinion on previously chosen criteria on page four and five or introduced other criteria that were not given for choice or ranking before.

		KOM – Multimedia Communications Lab	TECHNISCHE UNIVERSITÄT DARMSTADT
66%			
Your current selection criteria			
Based on what criteria do you select your tasks in a	crowdso	urcing platform cu	rrently?
			Next ►
Questions? Please read the frequently asked questions or drop us an email.			

Figure 6: Open Question

7. Worker's characteristics (2)

The last page shown in Figure 7 asked for additional and redundant information as described for page two already.

KOM - Mu Communicat	
Base Further information about your activity on crowd	sourcing platforms
How many tasks do you accept in an average week? How many of your tasks are rejected in an average week? Estimate: How many tasks did you accept last year?	- Please select - - Please select - - Please enter -
	Next ►
Questions? Please read the frequently asked questions or drop us an email.	

Figure 7: Worker's characteristics (2)

References

[1] S. Schnitzer, C. Rensing, S. Schmidt, K. Borchert, M. Hirth, P. Tran-Gia - Demands on task recommendation in crowdsourcing platforms – the worker's perspective, ACM RecSys 2015, CrowdRec Workshop – to be published