



EXTRACTING REPRESENTATIVE INFORMATION ON INTRA-ORGANIZATIONAL BLOGGING PLATFORMS

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Appendix A

An Illustrative Example for the Clustering Process of REPSET I

Figure A1 illustrates the clustering process of the REPSET method. There are nine documents represented as five round points and four square points. The distances between data points correspond to the pairwise similarities between documents. Intuitively, these nine documents can be divided into two clusters, i.e., the round point cluster and the square point cluster.

At the beginning, each point is treated as an individual cluster. In each step, two clusters with the largest similarity are merged into a new one. The backward strategy is applied after the generation of a new cluster. In the example, in steps (b)–(f), no boundary document is found in the generated cluster and reallocation does not occur. In step (g), two documents located in the middle are merged into one cluster, since they have the largest similarity. If the clustering process continues as the traditional hierarchical clustering method, the nine documents will finally be grouped into two clusters as shown in step (h), which turns out to be inaccurate, because one square document is assigned to a cluster in which most documents are round. In contrast, in REPSET, the square document will be marked as a boundary object (outlined in red), since its average similarity to the whole cluster is less than λ . The backward strategy will then reevaluate the red document and reallocate it if needed. As shown in (i), because the red document's similarity to the left cluster.



Appendix B

Proportions of Data Objects Reallocated in REPSET Clustering

Table B1: Proportions of Data Objects Reallocated in REPSET Clustering					
Dataset No.	Reallocation Proportion	Dataset No.	Reallocation Proportion		
1	0.91%	16	3.23%		
2	0.15%	17	1.17%		
3	0.00%	18	0.37%		
4	1.35%	19	0.25%		
5	0.01%	20	5.79%		
6	4.42%	21	1.52%		
7	2.16%	22	1.16%		
8	0.00%	23	0.04%		
9	3.47%	24	0.78%		
10	0.35%	25	1.08%		
11	0.38%	26	1.16%		
12	0.51%	27	0.60%		
13	0.47%	28	0.18%		
14	4.94%	29	0.00%		
15	0.30%	30	2.37%		
Average	-		1.29%		



Appendix C

Representative Article Extraction Example

As an example, we compare the results of representative article extraction between REPSET and X-Means, a typical traditional clustering method. We used the blogging data of a typical region of Company X, during the time period of July 2010, with a total of 2,239 blog articles. Using REPSET and X-Means, respectively, we extracted 10 articles from the data set. Figure C1 shows the comparison of the sizes of clusters generated by the two methods. It can be seen that the sizes of clusters generated by X-Means is much more even than those of REPSET. These results illustrate the fact that X-Means tends to select clusters that are spatially equidistant, which is deficient for representativeness extraction. In contrast, the sizes of clusters generated by REPSET are more discrepant, indicating the capability of REPSET to capture more diverse content.



Table C1 lists the titles of the representative articles extracted by REPSET and X-Means, respectively. It can be seen that the articles extracted by X-Means are mostly life-related and emotional essays. In the whole data set, about 70% of articles are life-related and 30% are work-related. In the results of X-Means, work-related articles are drown in life-related content and fail to be revealed. Meanwhile, most of the extracted life-related articles are similar to some extent. In contrast, in the results of REPSET, six extracted articles are work-related, covering diverse topics including work balance, industry analysis, and customer alerts. The four life-related articles are also diverse, covering topics such as love, dining, and life advices. Such results intuitively show that REPSET can facilitate enhanced diversity in coverage and therefore capture more representative results.

Table C1. Representative Article Extraction Results								
Articles Extracted by REPSET								
No.	Article Title	Category						
1	In the south, love is not only conveyed with poetry	Life						
2	Nice places for dining in the Shunde city	Life						
3	How to balance project work and post work	Work						
4	Fourteen advices for girls born in the 1980s	Life						
5	Industry Watch: China Mobile is facing five challenges in the field of information technology	Work						
6	The most comprehensive methods for recovering from drunk	Life						
7	Sharing the morning business meeting memo for July 6, 2010	Work						
8	Training plan for new employees	Work						
9	Work plan, 2nd week, July, Ronggui customer services	Work						
10	VIP customer alert numbers	Work						
Article	s Extracted by X-Means							
No.	Article Title	Category						
1	Happiness blind	Life						
2	There is a love that cannot be waited, there is a love that cannot be hurt.	Life						
3	Life is like donkeys, dogs, and monkeys.	Life						
4	Workplace is like a battlefield	Work						
5	To lose	Life-work						
6	Sadness is a kind of beauty	Life						
7	Love is only one more stroke than hate	Life						
8	Someone to allow me to be unreasonable	Life						
9	Losing affection	Life						
10	Spider nets	Life						

Appendix D

Empirical Data Experiments Results with Varying Numbers of Representative Articles

CLUSTER NUM	MEASURE	REPSET	RANDOM	TOP RATED	MOST READ	MOST COMMENTED	GRAPH
10	de facto F ₁ -measure	0.504	0.391	0.278	0.374	0.205	0.326
10	de facto Coverage	0.374	0.284	0.193	0.287	0.130	0.326
10	de facto Redundancy	0.227	0.373	0.502	0.463	0.521	0.675
15	de facto F ₁ -measure	0.442	0.4	0.286	0.348	0.212	0.356
15	de facto Coverage	0.34	0.331	0.219	0.311	0.146	0.382
15	de facto Redundancy	0.371	0.492	0.588	0.606	0.619	0.667
20	de facto F ₁ -measure	0.444	0.396	0.274	0.333	0.211	0.368
20	de facto Coverage	0.379	0.357	0.235	0.341	0.162	0.409
20	de facto Redundancy	0.465	0.554	0.671	0.675	0.697	0.665
25	de facto F ₁ -measure	0.458	0.391	0.258	0.313	0.206	0.382
25	de facto Coverage	0.437	0.373	0.246	0.353	0.171	0.457
25	de facto Redundancy	0.519	0.588	0.73	0.718	0.741	0.672
30	de facto F ₁ -measure	0.438	0.371	0.245	0.295	0.194	0.359
30	de facto Coverage	0.445	0.4	0.271	0.36	0.177	0.477
30	de facto Redundancy	0.569	0.653	0.776	0.75	0.785	0.712
35	de facto F ₁ -measure	0.433	0.349	0.239	0.27	0.183	0.338
35	de facto Coverage	0.458	0.407	0.281	0.369	0.182	0.492
35	de facto Redundancy	0.59	0.694	0.792	0.787	0.817	0.742
40	de facto F ₁ -measure	0.401	0.349	0.261	0.249	0.177	0.337
40	de facto Coverage	0.466	0.427	0.373	0.382	0.188	0.51
40	de facto Redundancy	0.648	0.705	0.799	0.815	0.832	0.748
45	de facto F ₁ -measure	0.387	0.33	0.245	0.238	0.174	0.318
45	de facto Coverage	0.459	0.44	0.379	0.389	0.196	0.52
45	de facto Redundancy	0.665	0.735	0.819	0.828	0.844	0.771
50	de facto F ₁ -measure	0.378	0.312	0.233	0.223	0.164	0.307
50	de facto Coverage	0.465	0.442	0.384	0.394	0.2	0.53
50	de facto Redundancy	0.682	0.76	0.833	0.844	0.861	0.784
55	de facto F ₁ -measure	0.371	0.299	0.216	0.217	0.214	0.296
55	de facto Coverage	0.474	0.456	0.392	0.407	0.336	0.534
55	de facto Redundancy	0.696	0.778	0.851	0.852	0.843	0.795
60	de facto F ₁ -measure	0.357	0.302	0.215	0.209	0.211	0.279
60	de facto Coverage	0.483	0.456	0.397	0.413	0.356	0.536
60	de facto Redundancy	0.717	0.775	0.853	0.86	0.85	0.812
70	de facto F ₁ -measure	0.33	0.268	0.193	0.187	0.198	0.251
70	de facto Coverage	0.521	0.483	0.408	0.426	0.382	0.549
70	de facto Redundancy	0.759	0.815	0.873	0.88	0.866	0.837
80	de facto F ₁ -measure	0.311	0.251	0.199	0.17	0.192	0.227
80	de facto Coverage	0.533	0.49	0.415	0.433	0.403	0.557

CLUSTER NUM	MEASURE	REPSET	RANDOM	TOP RATED	MOST READ	MOST COMMENTED	GRAPH
80	de facto Redundancy	0.78	0.831	0.869	0.894	0.874	0.857
90	de facto F ₁ -measure	0.306	0.238	0.197	0.155	0.176	0.212
90	de facto Coverage	0.54	0.499	0.425	0.44	0.416	0.563
90	de facto Redundancy	0.787	0.844	0.872	0.906	0.888	0.87
100	de facto F ₁ -measure	0.285	0.231	0.187	0.143	0.168	0.192
100	de facto Coverage	0.547	0.51	0.433	0.448	0.426	0.565
100	de facto Redundancy	0.808	0.851	0.881	0.915	0.895	0.885
110	de facto F ₁ -measure	0.276	0.215	0.172	0.135	0.174	0.195
110	de facto Coverage	0.555	0.52	0.437	0.454	0.433	0.572
110	de facto Redundancy	0.817	0.864	0.893	0.921	0.891	0.882
120	de facto F ₁ -measure	0.25	0.192	0.162	0.151	0.163	0.178
120	de facto Coverage	0.559	0.528	0.445	0.459	0.44	0.577
120	de facto Redundancy	0.839	0.883	0.901	0.91	0.9	0.895
130	de facto F ₁ -measure	0.243	0.193	0.16	0.144	0.152	0.174
130	de facto Coverage	0.563	0.535	0.453	0.465	0.445	0.584
130	de facto Redundancy	0.845	0.882	0.903	0.914	0.908	0.898
140	de facto F ₁ -measure	0.225	0.187	0.154	0.138	0.143	0.163
140	de facto Coverage	0.57	0.543	0.463	0.473	0.453	0.59
140	de facto Redundancy	0.86	0.887	0.907	0.919	0.915	0.906
150	de facto F ₁ -measure	0.215	0.171	0.146	0.135	0.137	0.153
150	de facto Coverage	0.575	0.551	0.467	0.478	0.459	0.592
150	de facto Redundancy	0.868	0.899	0.913	0.921	0.92	0.912
CLUSTER NUM	MEASURE	XMEANS	RBR	DIRECT	LDA	HLDA	DTM
10	de facto F₁-measure	0.433	0.469	0.452	0.36	0.409	0.37
10	de facto Coverage	0.365	0.402	0.4	0.284	0.311	0.272
10	de facto Redundancy	0.468	0.437	0.48	0.51	0.405	0.423
15	de facto F ₁ -measure	0.424	0.474	0.467	0.339	0.395	0.369
15	de facto Coverage	0.391	0.438	0.431	0.317	0.324	0.28
15	de facto Redundancy	0.536	0.483	0.491	0.635	0.497	0.456
20	de facto F ₁ -measure	0.396	0.464	0.467	0.294	0.379	0.394
20	de facto Coverage	0.421	0.463	0.463	0.326	0.34	0.353
20	de facto Redundancy	0.627	0.536	0.529	0.732	0.572	0.553
25	de facto F ₁ -measure	0.364	0.436	0.419	0.286	0.359	0.385
25	de facto Coverage	0.434	0.483	0.486	0.337	0.352	0.363
25	de facto Redundancy	0.686	0.603	0.632	0.752	0.632	0.591
30	de facto F ₁ -measure	0.336	0.41	0.43	0.287	0.348	0.429
30	de facto Coverage	0.446	0.497	0.495	0.356	0.365	0.391
30	de facto Redundancy	0.731	0.652	0.621	0.76	0.668	0.525
35	de facto F ₁ -measure	0.322	0.382	0.389	0.258	0.334	0.42
35	de facto Coverage	0.47	0.511	0.508	0.363	0.374	0.406
35	de facto Redundancy	0.755	0.696	0.685	0.8	0.698	0.565
40	de facto F ₁ -measure	0.305	0.38	0.372	0.252	0.32	0.389
40	de facto Coverage	0.478	0.521	0.518	0.38	0.381	0.383

CLUSTER							
NUM	MEASURE	XMEANS	RBR	DIRECT	LDA	HLDA	DTM
40	de facto Redundancy	0.776	0.701	0.71	0.812	0.725	0.604
45	de facto F ₁ -measure	0.287	0.349	0.371	0.249	0.296	0.396
45	de facto Coverage	0.488	0.531	0.529	0.456	0.391	0.424
45	de facto Redundancy	0.797	0.74	0.715	0.829	0.762	0.63
50	de facto F₁-measure	0.268	0.359	0.369	0.205	0.277	0.337
50	de facto Coverage	0.494	0.538	0.537	0.386	0.398	0.449
50	de facto Redundancy	0.816	0.73	0.719	0.86	0.788	0.73
55	de facto F ₁ -measure	0.259	0.342	0.346	0.206	0.259	0.357
55	de facto Coverage	0.503	0.545	0.545	0.396	0.399	0.451
55	de facto Redundancy	0.825	0.751	0.747	0.861	0.809	0.705
60	de facto F1-measure	0.254	0.333	0.356	0.179	0.254	0.352
60	de facto Coverage	0.505	0.554	0.552	0.396	0.413	0.471
60	de facto Redundancy	0.83	0.762	0.737	0.884	0.817	0.72
70	de facto F₁-measure	0.23	0.304	0.338	0.182	0.267	0.354
70	de facto Coverage	0.532	0.564	0.562	0.488	0.437	0.483
70	de facto Redundancy	0.853	0.792	0.758	0.888	0.808	0.72
80	de facto F₁-measure	0.213	0.296	0.307	0.165	0.245	0.292
80	de facto Coverage	0.546	0.574	0.57	0.493	0.444	0.49
80	de facto Redundancy	0.868	0.801	0.79	0.901	0.831	0.792
90	de facto F₁-measure	0.194	0.288	0.301	0.146	0.233	0.301
90	de facto Coverage	0.558	0.583	0.582	0.506	0.452	0.51
90	de facto Redundancy	0.883	0.809	0.797	0.914	0.843	0.787
100	de facto F ₁ -measure	0.183	0.263	0.283	0.139	0.219	0.303
100	de facto Coverage	0.565	0.592	0.588	0.513	0.455	0.494
100	de facto Redundancy	0.891	0.831	0.814	0.92	0.856	0.781
110	de facto F ₁ -measure	0.174	0.269	0.27	0.132	0.206	0.247
110	de facto Coverage	0.572	0.6	0.598	0.52	0.46	0.519
110	de facto Redundancy	0.898	0.827	0.826	0.924	0.867	0.838
120	de facto F1-measure	0.162	0.244	0.244	0.121	0.194	0.244
120	de facto Coverage	0.58	0.607	0.605	0.523	0.465	0.535
120	de facto Redundancy	0.906	0.847	0.847	0.932	0.877	0.842
130	de facto F₁-measure	0.156	0.225	0.239	0.105	0.185	0.232
130	de facto Coverage	0.581	0.613	0.61	0.452	0.47	0.519
130	de facto Redundancy	0.91	0.863	0.852	0.941	0.885	0.851
140	de facto F₁-measure	0.145	0.228	0.233	0.102	0.172	0.215
140	de facto Coverage	0.586	0.621	0.617	0.461	0.473	0.545
140	de facto Redundancy	0.918	0.861	0.856	0.943	0.895	0.866
150	de facto F₁-measure	0.133	0.207	0.229	0.098	0.163	0.231
150	de facto Coverage	0.589	0.625	0.623	0.54	0.476	0.54
150	de facto Redundancy	0.925	0.876	0.86	0.946	0.901	0.853

Appendix E

Experiment Script (Translated from Chinese) Experiments on Blog Article Reading NO: _____ Dear students, Welcome to participate in this experiment! The following are ten articles selected from a company's internal blogging system. Please carefully read these blog articles for 20 minutes. When the time is up, you will be asked to answer several questions mark a number of words according to what you have read. Basic information: 1. Name______, Gender_____, Age_____

 2. Major_______, Grade______, Grade______

 3. Your familiarity with blogging system_______

 A. Completely unfamiliar
 B. Unfamiliar

 C. Neutral
 D. Familiar

 E. Very familiar

(After providing the basic information, the articles are displayed and the subjects are required to read the articles for 20 minutes. When the time is up, the system closes the article and presents the following questions.)

For each of the following question, please select the number that corresponds with your reading experience. The number "1" represents "strongly disagree," while the number "7" represents "strongly agree."

		Please select						
Questions	Strongly Disagree	Disagree	Slightly Disagree	Neutral	Slightly Agree	Agree	Strongly Agree	
This group of blog articles has much repetition.	1	2	3	4	5	6	7	
This group of blog articles has similar topics.	1	2	3	4	5	6	7	
This group of blog articles has a wide range of contents.	1	2	3	4	5	6	7	
This group of blog articles provides rich information.	1	2	3	4	5	6	7	

If you have any feelings, opinions or comments on this group of blog articles please feel free to write them down in the following space:

Please label the following words based on your reading.

If you have browsed any information related with the word, please tick " $\sqrt{}$ ", otherwise no label is needed.

100	139	2010	BOSS	G3	GPRS
http	arrangement	case	method	transaction	organization
warranty	standard	performance	others	department	participate
take part in	operation	inquire	product	surpass	growth
success	grade	member	charge	error	final
unit	cause	zone	place	second	third
first	phone	store	adjustment	effect	dynamic
sms	happen	send	discovery	development	program
method	manner	fee	branch	allocation	analysis
share	minute	Foshan	service	responsible	accessory
change	thanks	post	tell	the work	company
function	communication	purchase	key	management	Guangdong
specification	rule	process	kids	number	cooperation
bill	јоу	environment	reply	home	conference
activity	opportunity	foundation	group	plan	record
quarter	home	value	reduce	inspection	simple
set up	proposal	health	reward	drop	exchange
accept	end	solve	explanation	introduction	progress
manager	experience	experience	spirit	competition	account
opening	happy	check	client	control	happiness
binding	difficulty	leliu	leave	understanding	utilize
leadership	process	satisfaction	monthly	password	free
goal	internal	content	ability	strive	train
coordinate	friend	brand	balance	usually	platform
business	reception	situation	mood	area	channel
global pass	life	staff	daily	Ronggui	social
application	close	identity	body	life	life
time	world	market	thing	receive	collect
cell phone	familiar	data	Shunde	attitude	discussion
package	put forward	improve	provide	upgrade	remind
experience	condition	call	communicate	communications	notification
colleague	unity	complaints	team	spread	recommendation
expand	network	website	future	hope	habit
love	system	afternoon	show	on site	relevant
enjoy	project	consumption	sales	effect	assist
thanks	mood	mentality	information	week	industry
form	happiness	demand	propaganda	choose	student
learning	pressure	business	opinion	awareness	factor
marketing	operate	affect	own	forever	user
preferential	outstanding	pre-store	staff	reason	operations
online	responsibility	increase	gift	about	correct
policy	support	knowledge	execution	index	guide
formulate	quality	intelligence	china	center	terminal
emphasis	initiative	theme	status	consultation	charges
data	resources	comprehensive			

Appendix F

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亲爱的同学:				
您好!欢迎参加本次实验。				
以下是从某公司的内部博客系统中设	出的一组(共10篇)文章。请用20分钟的时间,仔细阅读这些文章,并	根据您的阅读感受,回答最后一		
页中的问题。随后,我们将收回您所说	读的文章,并请您根据记忆对一定数量的词语进行标注,判断这些词语是	是否曾在文章中被提及。		
请留下您的以下信息:				
1. 您的姓名,性别_	,年龄			L
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	1. 行业观察:中国移动信息化领域	〔面临五大挑战						
[导读]目前,随着3G 于各种原因导致中移动者 力。	启动,无线互联网时代的到来,移动信息化已成为信息化发展自 ;移动信息化领域面对众多挑战,只有采取适当的策略,未来移;	的一个重要方向,具有广阔的市场应用前景。但是 动信息化市场才能成为中国移动业务持久发展的新	动					
第三,中国移动拥有 众多、充满活力的SP、0 探索出一条运合自己的利	合作伙伴优势。通过多年的发展,目前中国移动已经在移动增值 2 P 等合作伙伴。结合移动信息化发展特点,通过对现有移动增值 运动信息化业务运营模式。	直领域形成了较为成熟的业务运作模式,并拥有数 直领域运作模式进行深化与外延,中国移动完全能	量够					
第四, 良好的服务、 势全业务时期, 电信运音 移动信息化的胜势:	完善的网络覆盖及其他基础设施资源优势,使得中移动在发展耗 滴的核心竞争力决定了其在全业务价值链中的定位。中国移动	移动信息化业务方面具有得天独厚优势。化优势为 可以利用以上优势,采取以下策略将自身优势转化	胜 为					
首先,在产品方面, 乐、手机电视等移动五耳 公、手机邮箱、M2M等, 环境、家庭信息服务、 ⁹	在个人用户市场,将UVoIM业务核心进一步整合多媒体通信, 两业务的快速发展。针对集团零户市场,中国移动应以集团客, 逐步拓展集团用户市场。家庭业务方面,将通过家庭网关逐步 "搬家居、远程医疗、远程数育等。	同时带动媒体、社区、广告、电子商务、搜索、音 户提供信息服务和部分行业应用为切入点,如移动 实现家庭信息化服务,实现无处不在泛在的家庭问	办 1络					
其次,建议中国移动	建立移动信息化产品孵化基地,探索移动信息化产品的研发、质	应用及运营模式。						~



1. 这组文章的内容有很多重复。 1 ○ ○ 3 ○ 4 ○ 6 2. 这组文章的沾遢相近。 ○ 1 ○ 2 ○ 3 ○ 4 ○ 6 3. 这组文章的沾遢相近。 ○ 1 ○ 2 ○ 3 ○ 4 ○ 6 3. 这组文章的内容范围下泛。 ○ 1 ○ ○ 3 ○ 4 ○ 6 4. 这组文章提供了丰富的信息。 ○ 1 ○ ○ 3 ○ 4 ○ 6	非常同意 〇 7 〇 7 〇 7 〇 7 〇 7 〇 7

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