f0007:

W Fdic:							
the	: 82	and	: 55	of	: 39	to	: 34
in	: 28	social	: 26	faceted	: 23	is	: 21
for	: 20	search	: 16	navigation	: 14	on	: 14
semantic	: 13	classifications	: 13	information	: 13	-lsb-	: 12
space	: 12	semantics	: 12	are	: 12	-rsb-	: 12
networking	: 12	-lrb-	: 12	-rrb-	: 12	web	: 11
can	: 10	that	: 10	interaction	: 9	interactive	: 9
networks	: 9	different	: 9	with	: 9	network	: 8
model	: 8	interactions	: 8	resources	: 7	from	: 7
it	: 7	facets	: 7	this	: 6	research	: 6
humans	: 6	various	: 6	basic	: 6	an	: 6
link	: 6	process	: 5	help	: 5	paper	: 5
through	: 5	multi-dimensional	: 5	articles	: 5	theory	: 5
sentences	: 5	evolution	: 5	between	: 5	range	: 5
titled	: 4	use	: 4	principles	: 4	society	: 4
issue	: 4	efficient	: 4	set	: 4	key	: 4
or	: 4	metric	: 4	cyberspace	: 4	lens	: 4
understanding	: 3	classification	: 3	intelligent	: 3	reflect	: 3
applications	: 3	fundamental	: 3	top-k	: 3	by	: 3
adaptive	: 3	language	: 3	relations	: 3	11	: 3
effective	: 3	multiple	: 3	services	: 3	based	: 3
knowledge	: 3	reading	: 3	been	: 3	generating	: 3
understand	: 3	will	: 3	development	: 3	has	: 3
world	: 3	people	: 3	be	: 3	automatically	: 3
appropriate	: 3	devices	: 3	as	: 3	node	: 3
users	: 3	models	: 3	important	: 3	query	: 2
nodes	: 2	new	: 2	method	: 2	evolving	: 2
explore	: 2	making	: 2	manage	: 2	browse	: 2
high	: 2	how	: 2	such	: 2	efficiently	: 2
natural	: 2	words	: 2	its	: 2	not	: 2
realize	: 2	each	: 2	related	: 2	extract	: 2
special	: 2	organize	: 2	linking	: 2	size	: 2
interact	: 2	indicate	: 2	10	: 2	future	: 2
contents	: 2	most	: 2	pages	: 2	mobile	: 2
text	: 2	spaces	: 2	experiments	: 2	including	: 2
individual	: 2	approach	: 2	we	: 2	interfaces	: 2
efficiency	: 2	article	: 2	topology	: 2	influential	: 2
many	: 2	scale-free	: 2	called	: 2	basis	: 2
extraction	: 2	improve	: 2	these	: 2	property	: 2
evolve	: 2	effect	: 2	sentence	: 2	obtain	: 2
underlying	: 2	human	: 2	using	: 2	aspects	: 2
read	: 2	papers	: 2	know	: 2	intersection	: 2
methods	: 2	searching	: 2	way	: 2	also	: 2
exploration	: 2	similar	: 2	distance	: 2	links	: 2
required	: 2	monte	: 1	similarity	: 1	indicating	: 1
all	: 1	issues	: 1	depend	: 1	technique	: 1

F:\Pn.D_1\program\Eclipse\CE_	_relation\vvtrequer	ice\vvPFtuuu7.txt						2016年7月18日 9:43
presents	: 1	topic	: 1	critical	: 1	helps	: 1	
straightforward	: 1	evaluation	: 1	large	: 1	measuring	: 1	
discover	: 1	carlo	: 1	index	: 1	find	: 1	
access	: 1	explosion	: 1	degree	: 1	objects	: 1	
directions	: 1	implicit	: 1	studied	: 1	diameter	: 1	
addresses	: 1	psychological	: 1	texts	: 1	establish	: 1	
unit	: 1	languages	: 1	figure	: 1	two	: 1	
search/navigation	/browsing:	1 assessment		: 1 granulariti	es	: 1 sharing	: 1	
becomes	: 1	capturing	: 1	extracting	: 1	evolves	: 1	
integrating	: 1	challenge	: 1	following	: 1	strategies	: 1	
e.g.	: 1	neglected	: 1	sense	: 1	sought	: 1	
provide	: 1	inputs	: 1	may	: 1	collection	: 1	
tries	: 1	improving	: 1	short	: 1	third	: 1	
explicit	: 1	algorithms	: 1	operations	: 1	structuring	: 1	
facilitates	: 1	still	: 1	comprehend	: 1	systems	: 1	
defining	: 1	views	: 1	propose	: 1	one	: 1	
classifying	: 1	generation	: 1	measure	: 1	our	: 1	
operation	: 1	out	: 1	living	: 1	since	: 1	
content	: 1	shows	: 1	mechanisms	: 1	formation	: 1	
put	: 1	generate	: 1	refinements	: 1	sack	: 1	
philosophical	: 1	another	: 1	open	: 1	given	: 1	
system	: 1	adopted	: 1	interests	: 1	accurately	: 1	
authors	: 1	12	: 1	17	: 1	aims	: 1	
enables	: 1	topics	: 1	have	: 1	built	: 1	
able	: 1	13-16	: 1	which	: 1	online	: 1	
techniques	: 1	towards	: 1	allow	: 1	intrinsic	: 1	
implications	: 1	graphs	: 1	show	: 1	entities	: 1	
hope	: 1	handle	: 1	means	: 1	dependent	: 1	
closely	: 1	during	: 1	resource	: 1	covering	: 1	
consisting	: 1	queries	: 1	where	: 1	constructing	: 1	
achieved	: 1	10,17	: 1	radius	: 1	awaits	: 1	
exponent	: 1	managing	: 1	identification	: 1	propagated	: 1	
discovery	: 1	available	: 1	terms	: 1	creating	: 1	
handful	: 1	however	: 1	distinguish	: 1	e-learning	: 1	
adapting	: 1	both	: 1	according	: 1	context	: 1	
estimation	: 1	whole	: 1	experimental	: 1	relevant	: 1	
large-scale	: 1	simple	: 1	community	: 1	sampling	: 1	
maximize	: 1	power-law	: 1	considering	: 1	i.e.	: 1	
engines	: 1	create	: 1	linguistic	: 1	senses	: 1	
deepen	: 1	those	: 1	uncertain	: 1	behavior	: 1	
emphasizing	: 1	manually	: 1	cluster	: 1	multi-step	: 1	
id	: 1	things	: 1	make	: 1	same	: 1	
complex	: 1	viewed	: 1	units	: 1	used	: 1	
user	: 1	normalization	: 1	weave	: 1	studies	: 1	
modeled	: 1	proposed	: 1	rest	: 1	proposes	: 1	
previous	: 1	depicts	: 1	helping	: 1	readers	: 1	
similarities	: 1	spread	: 1	transformed	: 1	five	: 1	
emergence	: 1	individuals	: 1	steps	: 1	either	: 1	
=	: 1	deal	: 1	library	: 1	accelerate	: 1	
popular	• T	ueaı	· 1	TIDIALÀ	• I	acceretate	· ±	

	_relation(vvireque							2010年7月10日 9.43
organizing	: 1	dimensions	: 1	does	: 1	locate	: 1	
accessing	: 1	scientific	: 1	real-world	: 1	processing	: 1	
verifications	: 1	properties	: 1	carried	: 1	meaning	: 1	
simulation	: 1	supervised	: 1	neighbor	: 1	introduced	: 1	
navigability	: 1	e-business	: 1	into	: 1	within	: 1	
topologies	: 1	textual	: 1	was	: 1	assumes	: 1	
form	: 1	idea	: 1	volume	: 1	compute	: 1	
display	: 1	associated	: 1	certain	: 1	contribute	: 1	
influence	: 1	general	: 1	at	: 1	distributions	: 1	
constructed	: 1	functions	: 1	us	: 1	when	: 1	
small-world	: 1	other	: 1	outputs	: 1	kinds	: 1	
problems	: 1	includes	: 1	generated	: 1	reorganization	: 1	
lead	: 1	depth	: 1	original	: 1	reorganización	• =	
			. –					
WP_Fdic:		. 00				[]-EL LINI		. 20
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['to', 'TO']		: 34	['in', 'IN'		: 28	['social', 'JJ']		: 24
['is', 'VBZ']		: 21	['for', 'IN		: 20	['faceted', 'JJ']		: 19
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['papers', 'NNS']								

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[[+ - +]	. ^	['ite' 'DDD\$']	• 2	['improve', 'VB']	: 2
<pre>['titled', 'VBN'] ['approach', 'NN'] ['human', 'JJ'] ['nodes', 'NNS'] ['11', 'CD'] ['top-k', 'JJ'] ['node', 'JJ'] ['linking', 'VBG'] ['experiments', 'NNS']</pre>	• 2	<pre>['these', 'DT'] ['its', 'PRP\$'] ['organize', 'VB'] ['also', 'RB'] ['understand', 'VB'] ['efficiently', 'RB'] ['way', 'NN'] ['words', 'NNS']</pre>	• 2	[!automatically! DD!]	• 2
[approach , NN]	• 2	[Olganize , VD]	• 2	[adcomactedity , RD]	: 2 : 2
[Index INNC!]	. 2	[diso , RD]	. 2	[-ISD- , CD]	. 2 : 2
['nodes', 'NNS']	: 2	['understand', 'VB']	: 2	[altitle , NN]	: 2 : 2
['II', 'CD']	: 2	['efficiently', 'RB']	: 2	['aspects', 'NNS']	: 2
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['proposes', 'VBZ']	: 1	['underlying', 'JJ']	: 1	['during', 'IN']	: 1
['dependent', 'JJ']	: 1	['psychological', 'JJ']	: 1	['algorithms', 'NNS']	: 1
['manually', 'RB']	: 1	['content', 'NN']	: 1	['distributions', 'NNS']	: 1
['query', 'NN']	: 1	['within', 'IN']	: 1	['handle', 'VB']	: 1
['studies', 'VBZ']	: 1	['individual', 'NN']	: 1	['sense', 'VB']	: 1
['discover', 'VB']	: 1	['used', 'VBN']	: 1	['systems', 'NNS']	: 1

- The segram composite _ Total control equations to	1000111311				20:0-171 101 0:10
['sampling', 'NNP'] ['idea', 'NN'] ['addresses', 'VBZ'] ['those', 'DT'] ['behavior', 'NN'] ['according', 'VBG'] ['assessment', 'NNP'] ['find', 'VB'] ['different', 'VBG']	: 1	['large', 'JJ'] ['either', 'RB'] ['critical', 'JJ']	: 1	['viewed', 'VBN'] ['library', 'NN'] ['query', 'JJ']	: 1
['idea', 'NN']	: 1	['either', 'RB']	: 1	['library', 'NN']	: 1
['addresses', 'VBZ']	: 1	['critical', 'JJ']	: 1	['query', 'JJ']	: 1
['those', 'DT']	: 1	['closely', 'RB']	: 1	['influential', 'JJ']	: 1
['behavior', 'NN']	: 1	['linguistic', 'JJ']	: 1	['maximize', 'VB']	: 1
['according', 'VBG']	: 1	['supervised', 'VBD']	: 1	['evaluation', 'NN']	: 1
['assessment'. 'NNP']	• 1	['closely', 'RB'] ['linguistic', 'JJ'] ['supervised', 'VBD'] ['philosophical', 'JJ'] ['adapting', 'VBG'] ['facilitates', 'VBZ'] ['topologies', 'NNS']	· 1	['radius'. 'NNS']	• 1
['find'. 'VB']	• 1	['adapting'. 'VBG']	• 1	['introduced'. 'VBN']	• 1
['different' 'VBG']	• ± • 1	['facilitates' 'VB7']	• - • 1	['objects' 'NNS']	• ± • 1
['queries', 'NNS']	• ± • 1	['topologies' 'NNS']	• ± • 1	['rest' 'NN']	• ± • 1
['hrowse' 'NN']	• ± • 1	['same' '.T.T']	• ± • 1	['1150' VRD']	• ± • 1
<pre>['browse', 'NN'] ['normalization', 'JJ']</pre>	• ± • 1	['same', 'JJ'] ['generate', 'VB'] ['handful', 'NN'] ['most', 'RBS'] ['navigability', 'NN']	• <u>+</u> • 1	['i e ' 'NNP']	• ± • 1
[normalization , oo]	• ± • 1	['handful' 'NN']	• ± • 1	[I crosto! IVP!]	• ± • 1
[!display! !VP!]	• ± • 1	[manului , NN]	• ± • 1	[!nonular! !II!]	• ± • 1
['new', 'JJ'] ['display', 'VB'] ['individuals', 'NNS']	• 1	[MOSC , RDS]	• ± • 1	[popular , oo]	• ±
['Individuals', 'NNS']	; <u>1</u>	['Havigability', 'NN']	; <u>1</u>	['automatically', 'VB']	: 1
['understand', 'VBP']	; <u>1</u>	['locate', 'VB'] ['indicating', 'VBG']	; <u>1</u>	[TIILO , IN]	i 1
['Out', 'KP']	; <u>1</u>	['Indicating', 'VBG']	; <u>1</u>	['Managing', 'VBG']	i 1
['Stlil', 'KB']	; <u>1</u>	['Interests', 'NNS']	; <u>1</u>	['Wnich', 'WDT']	: 1
['US', 'PRP']	; 1	['snort', 'JJ']	: 1	['relinements', 'NNS']	: 1
['was', 'VBD']	: 1	['structuring', 'VBG']	: 1	['terms', 'NNS']	: 1
<pre>['individuals', 'NNS'] ['understand', 'VBP'] ['out', 'RP'] ['still', 'RB'] ['us', 'PRP'] ['was', 'VBD'] ['effect', 'VBZ'] ['simulation', 'NN']</pre>	: 1	['interests', 'NNS'] ['short', 'JJ'] ['structuring', 'VBG'] ['carried', 'VBN'] ['meaning', 'NN']	: 1	<pre>['query', 'JJ'] ['influential', 'JJ'] ['maximize', 'VB'] ['evaluation', 'NN'] ['radius', 'NNS'] ['introduced', 'VBN'] ['objects', 'NNS'] ['rest', 'NN'] ['use', 'VBP'] ['i.e.', 'NNP'] ['create', 'VB'] ['popular', 'JJ'] ['automatically', 'VB'] ['into', 'IN'] ['managing', 'VBG'] ['which', 'WDT'] ['refinements', 'NNS'] ['terms', 'NNS'] ['allow', 'VBP'] ['assumes', 'VBZ'] ['form', 'VBP'] ['show', 'VBP'] ['constructing', 'VBG'] ['influence', 'NN'] ['multi-step', 'JJ'] ['large-scale', 'JJ'] ['creating', 'VBG'] ['have', 'VBP'] ['general', 'JJ'] ['relevant', 'JJ']</pre>	: 1
['simulation', 'NN']	: 1	['meaning', 'NN']	: 1	['assumes', 'VBZ']	: 1
['13-16', 'CD']	: 1	['outputs', 'VBZ']	: 1	['IOTM', 'VB']	: 1
['models', 'VBD']	: 1	['studied', 'VBN'] ['studied', 'VBN'] ['similarities', 'NNS'] ['real-world', 'JJ'] ['kinds', 'NNS'] ['shows', 'VBZ']	: 1	['show', 'VBP']	: 1
['sought', 'NN']	: 1	['similarities', 'NNS']	: 1	['constructing', 'VBG']	: 1
['challenge', 'NN']	: 1	['real-world', 'JJ']	: 1	['influence', 'NN']	: 1
['-rsb-', 'NNP']	: 1	['kinds', 'NNS']	: 1	['multi-step', 'JJ']	: 1
['sharing', 'NN']	: 1	['snows', 'VBZ']	: 1	['large-scale', 'JJ']	: 1
['1/', 'CD']	; 1	['make', 'VBP'] ['10,17', 'CD']	: 1	['whole', 'JJ']	: 1
['scientific', 'JJ']	: 1	['10,17', 'CD']	: 1	['creating', 'VBG']	: 1
['individual', 'JJ']	: 1	['similarity', 'NN']	: 1	['have', 'VBP']	: 1
['e.g.', 'VBD']	: 1	['authors', 'NNS']	: 1	['general', 'JJ']	: 1
['means', 'NN']	: 1	['formation', 'NN']	: 1	['relevant', 'JJ']	: 1
<pre>['simulation', 'NN'] ['13-16', 'CD'] ['models', 'VBD'] ['sought', 'NN'] ['challenge', 'NN'] ['-rsb-', 'NNP'] ['sharing', 'NN'] ['17', 'CD'] ['scientific', 'JJ'] ['individual', 'JJ'] ['e.g.', 'VBD'] ['means', 'NN'] ['does', 'VBZ']</pre>	: 1	['similarity', 'NN'] ['authors', 'NNS'] ['formation', 'NN'] ['able', 'JJ']	: 1		
W_Pdic:					
monte : ['NNP']		semantic	: ['JJ']		
similarity : ['NN'] all : ['DT'] issues : ['NNS']		indicating query depend	: ['VBG']		
all : ['DT']		query	: ['JJ', 'N	IN ']	
issues : ['NNS']		depend	: ['VB']		
technique : ['NN']		presents	: ['VBZ']		
to : ['TO']		topic	: ['NN']		
critical : ['JJ']		helps	: ['VBZ']		
nodes : ['NNS']		resources	: ['NNS']		
straightforward : ['JJ']		classifications	: ['NNS']		
evaluation : ['NN']		large	: ['JJ']		
measuring : ['VBG']		titled	: ['NNP', '	'VBN']	
discover : ['VB']		carlo	: ['NNP']		
index : ['NN']		find	: ['VB']		

1.1F11.D_11programm_clipsetCL_relation	INVITEQUETICE (VVFT 10007.LXL			201
access :	['VB']	new	: ['NNP', 'JJ']	
method :	['NN']	evolving	: ['VBG']	
explosion :	['NN']	degree	: ['NN']	
understanding :	['VBG', 'NN']	explore	: ['VB']	
objects :	['NNS']	making	: ['VBG']	
directions :	['NNS']	implicit	: ['JJ']	
search :	['NN']	studied	: ['VBN']	
social :	['JJ', 'NNP']	navigation	: ['NN', 'VBN', 'NNP']	
diameter :	['NN']	addresses	: ['VBZ']	
classification :	['NN']	manage	: ['VB']	
psychological :	['JJ']	texts	: ['NNS']	
establish :	['VB']	unit	: ['NN']	
languages :	['NNS']	use	: ['NN', 'VBP']	
from :	['IN']	figure	: ['NN']	
	['NN', 'JJ']	two	: ['CD']	
search/navigation/brow	wsing: ['NN']	assessment	: ['NNP']	
granularities :	['NNS']	sharing	: ['NN']	
becomes :	['VBZ']	faceted	: ['JJ', 'VBD', 'NNP']	
capturing :	['VBG']	extracting	: ['VBG']	
evolves :	['VBZ']	integrating	: ['VBG']	
this :	['DT']	challenge	: ['NN']	
	['MD']	following	: ['VBG']	
strategies :	['NNS']	e.g.	: ['VBD']	
process :	['NN']	neglected	: ['VBN']	
high :	['JJ']	sense	: ['VB']	
sought :	['NN']	information	: ['NN', 'NNP']	
provide :	['VB']	how	: ['WRB']	
intelligent :	['JJ']	inputs	: ['VBZ']	
_	['MD']	collection	: ['NN']	
reflect :	['VBP', 'VB']	applications	: ['NNS', 'NNP']	
	['VBZ']	improving	: ['VBG']	
such :	['JJ']	efficiently	: ['RB']	
	['JJ']	natural	: ['JJ']	
third :	['JJ']	explicit	: ['JJ']	
algorithms :	['NNS']	fundamental	: ['JJ']	
	['NNS']	operations	: ['NNS']	
	['VB']	structuring	: ['VBG']	
± ±	['NN']	through	: ['IN']	
	['VBZ']	still	: ['RB']	
	['PRP\$']	multi-dimensional	: ['JJ']	
	['JJ', 'NNP']	comprehend	: ['VBN']	
=	['NNS']	defining	: ['VBG']	
	['NNS']	propose	: ['VBP']	
	['RB']	one	: ['CD']	
	['VB']	articles	: ['NNS']	
	['NNP', 'VBG', 'NNS', 'CD']	each	: ['DT']	
	['JJ']	generation	: ['NN']	
	['NNS']	related	: ['VBN']	
society :	['NN']	measure	: ['NN']	

The mis_reprogrammediapoores_re	olationitinoquonootti i ioooriba		
our	: ['PRP\$']	operation	: ['NN']
extract	: ['VB']	special	: ['JJ']
out	: ['RP']	living	: ['VBG']
by	: ['IN']	network	: ['NN']
space	: ['NN', 'NNP']	since	: ['IN']
research	: ['NN', 'NNP']	content	: ['NN']
adaptive	: ['JJ']	issue	: ['NN']
shows	: ['VBZ']	model	: ['NN', 'NNP']
theory	: ['NN']	interactions	: ['NNS']
mechanisms	: ['NNS']	formation	: ['NN']
put	: ['VBD']	generate	: ['VB']
interaction	: ['NN', 'NNP', 'JJ']	language	: ['NN']
refinements	: ['NNS']	organize	: ['VB']
sack	: ['NN']	linking	: ['VBG']
philosophical	: ['JJ']	relations	: ['NNS']
another	: ['DT']	open	: ['JJ']
size	: ['NN']	given	: ['VBN']
interact	: ['VB', 'VBP']	system	: ['NN']
adopted	: ['VBN']	indicate	: ['VB', 'VBP']
interests	: ['NNS']	that	: ['WDT', 'DT', 'IN']
accurately	: ['RB']	authors	: ['NNS']
semantics	: ['NNS']	11	: ['NNP', 'CD']
10	: ['CD']	12	: ['CD']
effective	: ['JJ']	17	: ['CD']
aims	: ['VBZ']	future	: ['JJ']
enables	: ['VBZ']	interactive	: ['JJ', 'NNP']
and	: ['CC']	topics	: ['NNS']
have	: ['VBP']	sentences	: ['NNS', 'NNP']
contents	: ['NNS']	built	: ['VBN']
efficient	: ['JJ', 'NNP']	able	: ['JJ']
13-16	: ['CD']	which	: ['WDT']
online	: ['JJ']	techniques	: ['NNS']
towards	: ['IN']	multiple	: ['JJ']
allow	: ['VBP']	most	: ['RBS', 'JJS']
services	: ['NNS']	intrinsic	: ['JJ']
pages	: ['NNS']	mobile	: ['JJ', 'NNP']
implications	: ['NNS']	graphs	: ['NNS']
show	: ['VBP']	text	: ['NN']
spaces	: ['NNPS', 'NNS']	networks	: ['NNS', 'NNPS']
based	: ['VBN']	knowledge	: ['NN', 'VBP']
entities	: ['NNS']	hope	: ['VBP']
handle	: ['VB']	means	: ['NN']
dependent	: ['JJ']	closely	: ['RB']
during	: ['IN']	evolution	: ['NN']
resource	: ['NNP']	covering	: ['VBG']
consisting	: ['VBG']	experiments	: ['NNS']
queries	: ['NNS']	including	: ['VBG']
where	: ['WRB']	set	: ['NN']
constructing	: ['VBG']	achieved	: ['VBN']

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10,17	: ['CD']	humans	: ['NNS']	
individual	: ['NN', 'JJ']	radius	: ['NNS']	
are	: ['VBP']	-rsb-	: ['NNS', 'JJ', 'NNP', 'CD']	
awaits	: ['VBZ']	exponent	: ['NN']	
managing	: ['VBG']	identification	: ['NNP']	
between	: ['IN']	propagated	: ['VBN']	
reading	: ['NN']	approach	: ['NN']	
discovery	: ['NN']	available	: ['JJ']	
we	: ['PRP']	various	: ['JJ']	
terms	: ['NNS']	creating	: ['VBG']	
interfaces	: ['NNS']	handful	: ['NN']	
however	: ['RB']	efficiency	: ['NN']	
key	: ['JJ', 'NN']	distinguish	: ['VB']	
article	: ['NN']	e-learning	: ['NN']	
topology	: ['JJ', 'NN']	adapting	: ['VBG']	
both	: ['DT']	influential	: ['NNP', 'JJ']	
many	: ['JJ']	scale-free	: ['JJ']	
according	: ['VBG']	called	: ['VBN']	
context	: ['NN']	estimation	: ['NN']	
whole	: ['JJ']	experimental	: ['JJ']	
relevant	: ['JJ']	large-scale	: ['JJ']	
simple	: ['JJ']	community	: ['NN']	
sampling	: ['NNP']	maximize	: ['VB']	
power-law	: ['JJ']	considering	: ['VBG']	
i.e.	: ['NNP']	engines	: ['NNS']	
basis	: ['NN']	create	: ['VB']	
been	: ['VBN']	extraction	: ['NN', 'NNP']	
basic	: ['JJ']	linguistic	: ['JJ']	
improve	: ['VB']	generating	: ['VBG']	
senses	: ['NNS']	understand	: ['VB', 'VBP']	
deepen	: ['VB']	an	: ['DT']	
those	: ['DT']	uncertain	: ['JJ']	
these	: ['DT']	will	: ['MD']	
behavior	: ['NN']	property	: ['NN']	
emphasizing	: ['VBG']	manually	: ['RB']	
is	: ['VBZ']	it	: ['PRP']	
cluster	: ['NN']	in	: ['IN']	
multi-step	: ['JJ']	id	: ['NNP']	
different	: ['JJ', 'VBG']	things	: ['NNS']	
make	: ['VBP']	same	: ['JJ']	
complex	: ['JJ']	viewed	: ['VBN']	
units	: ['NNS']	development	: ['NN']	
evolve	: ['VB']	used	: ['VBN']	
effect	: ['NN', 'VBZ']	user	: ['NNP']	
normalization	: ['JJ']	weave	: ['VB']	
studies	: ['VBZ']	modeled	: ['VBN']	
the	: ['DT']	proposed	: ['VBN']	
sentence	: ['NN']	obtain	: ['VB']	
rest	: ['NN']	proposes	: ['VBZ']	
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Descripting ['WSC', 'UJT'] human ['UJT'] human hum	_ r .y r	-			
using : ['NN', 'NNP'] depicts : ['VE'] helping : ['VSC'] readers : ['NNS'] similarities : ['NNS'] speed : ['NN] transformed : ['VNN'] has : ['VNN'] sapenta : ['NNS'] has : ['VNN'] sepers : ['NNS'] has : ['VNN'] sepers : ['NNS'] world : ['VNN'] sepers : ['NNS'] world : ['VNN'] seregonce : ['NNS'] intersoction : ['NNS'] stops : ['NNS'] stops : ['NNS'] stops : ['NNS'] stops : ['NNS'] spopular : ['NNS'] stops : ['NNS'] searching : ['NNS'] stops : ['NNS'] searching : ['NNS'] organizing : ['NNS'] dimensions : ['NNS'] organizing : ['NNS'] be : ['VS'] organizing : ['NNS'] coces : ['VS'] organizing<	underlying	: ['VBG', 'JJ']	human	: ['JJ']	
xeb : [NN. NNP*] depicts : [VBC*] sellping : [VBC*] readers : [NNN*] similarities : [VBN*] spread : [NNN*] transformed : [VBN*] bas : [VBC*] augects : [NNN*] five : [VBC*] know : [VNN*] world : [NNN*] steps : [NNN*] world : [NNN*] deal : [VJ*] either : [NN*] deal : [VJ*] vor : [NN*] decelerate : [VJ*] people : [NNN*] dimensions : [NN*] organizing : [VNN*] docal : [VJ*] organizing : [VNN*] docal : [VJ*] organizing : [VNN*]			previous		
Pelping	2		-		
similarities ['NN'] spread ['NN'] transformed ['VBN'] has ['VBN'] aspects ['NNS'] read ['VBP', 'VBN'] papers ['NNS'] five ['CO] know ['VB', 'NN'] world ['NN'] facets ['NNS'] intersection ['NN'] steps ['NNS'] individuals ['NN'] steps ['NNS'] either ['SP] popular ['JJ'] methods ['NNS'] searching ['JJ'] people ['NN'] searching ['JJ'] granleing ['WI'] decelerate ['WB'] granleing ['WB'] decelerate ['WB'] granleing ['WB'] decelerate ['WB'] granleing ['WB'] scientific ['WB'] granleing ['WB'] scientific ['WB'] granleing ['WB'] scientific ['WB'] granleing ['WB'] <			-		
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aspects : ['NNS']			-		
papers : [NNS1] five : ['OD'] know : ['V2', 'NM'] world : ['NN'] emergence : [NNS1] intersection : ['NNS1] facets : ['NNS1] either : ['NNS1] popular : ['JJ'] methods : ['NNS1] deal : ['V3'] people : ['NNS1] deal : ['V3'] people : ['NNS1] accelerate : ['V3'] people : ['NNT] docal : ['V85'] organizing : ['V80'] docal : ['V85'] organizing : ['V80'] docal : ['V85'] organizing : ['V80'] docal : ['V82'] locate : ['V80'] docal : ['V82'] locate : ['V80'] scientific : ['V31'] real-world : ['V31'] properties : ['NNT] real-world : ['V31'] properties : ['NNT] sinulation : ['NNT] rang : ['NNT] sinulatio					
Rnow	=				
emergence : ['NNS'] intersection : ['NNS'] facets : ['NNS'] either : ['NS'] steps : ['NNS'] either : ['NS'] popular : ['US'] pepple : ['NNS'] deal : ['US'] library : ['NNS'] searching : ['NS'] pepple : ['NNS'] doce : ['NNS'] for : ['NNS'] does : ['NS'] locate : ['VS'] ecelerate : ['NNS'] for : ['NS'] does : ['YBZ'] locate : ['VS'] doe : ['YBY] accessing : ['NS'] scientific : ['NN'] verifications : ['NNS'] properties : ['NNS'] on : ['INN] carried : ['NNS'] of : ['INN] range : ['NNN] supervised : ['NN] range : ['NN] supervised : ['NN] range : ['NN] supervised : ['NN]					
facets : [NNS'] individuals : [NNS'] steps : ['NS'] either : ['RB'] popular : ['JJ'] methods : ['NNS'] deal : ['VB'] people : ['NNS'] searching : ['VB'] library : ['NN'] demasions : ['NS'] for : ['NN] does : ['VE'] accessing : ['VB'] scientific : ['VB'] accessing : ['VB'] processing : ['NN'] verifications : ['NN'] properties : ['NN'] verifications : ['NN'] carried : ['NN'] on : ['NN'] carried : ['NN'] of : ['NN'] range : ['NN'] of : ['NN'] range : ['NN'] supervised : ['NB'] or : ['NN'] submittail : ['NN'] range : ['NN'] submittail : ['NN'] range : ['NN'] submittail : ['NN']					
Steps [NNS either	-				
popular : ['JJ]' methods : ['NNS', 'NNP'] deal : ['VB'] people : ['NNS'] searching : ['JJ, 'VBG'] library : ['NN'] dimensions : ['NB'] organizing : ['VB'] dimensions : ['NB'] locate : ['NN'] doss : ['VB'] accessing : ['VBG'] scientific : ['UJ'] real-world : ['JJ'] processing : ['NN'] verifications : ['NN'] properties : ['NNN'] on : ['TNI'] meaning : ['NN'] simulation : ['NN'] meaning : ['NN'] simulation : ['NN'] neighbor : ['NN'] supervised : ['NN'] neighbor : ['NN'] introduced : ['VB'] or : ['CC'] automatically : ['NB'] neighbor : ['NN'] e-business : ['NNS'] into : ['NN'] e-business : ['NN'] assumes : ['NN					
Geal : ['WB'] people : ['NNS'] searching : ['JJ', 'VBG'] library : ['NN'] accelerate : ['WB'] organizing : ['VBG'] dimensions : ['NBC'] locate : ['VB'] does : ['VBZ'] locate : ['VB'] be : ['VBT'] accessing : ['VBG'] sclentific : ['JJ] real-world : ['JJ] processing : ['NNI'] verifications : ['NNS'] processing : ['NNI'] of : ['TNI'] carried : ['VBN'] of : ['TNI'] carried : ['VBN'] of : ['TNI'] range : ['NNI'] simulation : ['NNI'] range : ['NNI'] supervised : ['VBD'] or : ['CC'] automatically : ['RB', 'VB'] navigability : ['NNI'] within : ['NN', 'NN'] into : ['JN'] within : ['NN', 'NN'] appropriate : ['JN'] <td>-</td> <td></td> <td></td> <td></td> <td></td>	-				
searching : ['JJ', 'VBG'] library : ['NB'] accelerate : ['VB'] organizing : ['VBG'] dimensions : ['NB'] for : ['NI'] does : ['VB'] locate : ['VB'] be : ['VB'] accessing : ['VBG'] be : ['VB'] accessing : ['VBG'] scientific : ['JJ'] real-world : ['VBG'] scientific : ['JJ'] real-world : ['JJ'] properside : ['NN'] on : ['JN'] properties : ['NN'] simulation : ['NN'] meaning : ['NN'] supervised : ['VBD'] neighbor : ['NN']					
accelerate : ['VE']					
dimensions : ['NNS'] for : ['IN'] does : ['V2z'] locate : ['V2'] be : ['V8'] accessing : ['V8G'] scientific : ['JJ'] real-world : ['JJ'] processing : ['NNS'] properties : ['NNS'] on : ['INS'] meaning : ['NN'] simulation : ['NN'] range : ['NN'] simulation : ['NN'] reighbor : ['IN'] simulation : ['NN'] reighbor : ['IN'] introduced : ['V8B'] or : ['CC'] automatically : ['R8', 'V8'] navigability : ['NN'] e-business : ['NNS'] into : ['IN'] within : ['IN'] appropriate : ['JJ'] networking : ['NNF', 'NN'] topologies : ['NNS'] textual : ['JJ'] assumes : ['V8Z'] form : ['V8B'] idea : ['NN'] was : ['V8B'] idea : ['NN'] volume : ['NN'] link : ['NN'] also : ['NN'] with : ['IN'] also : ['RB'] exploration : ['NNF', 'NN'] devices : ['NNS'] associated : ['V8N'] distance : ['NNF', 'JJ'] display : ['V8'] distance : ['NNF', 'JJ'] contribute : ['V8B'] ass : ['NNF', 'NNS'] att : ['INF', 'JJ'] distance : ['NNF', 'NNS'] errb- : ['-RRB-'] certain : ['JJ'] contribute : ['V8B'] ass : ['NNF', 'NNS'] erric : ['NNF', 'JJ'] distance : ['NNF', 'NNS'] errocation : ['NNF', 'JJ'] distance : ['NNS'] errocation : ['NNF', 'JJ'] distance : ['NNS'] errocation : ['NNF', 'JJ'] distance : ['NNF', 'NNS'] errocation : ['NNF', 'JJ'] distance : ['NNS'] errocation : ['NNF', 'JJ'] distance : ['NNF', 'NNS'] errocation : ['NNF', 'NNS'] distance : ['NNF', 'NNS'] errocation : ['NNF', 'NNS'] dis	_		-		
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models	: ['NNS', 'VBD']	problems	: ['NNS']
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