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network	: 24	d1	: 24	for	: 23	new	: 22
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set	: 18	according	: 18	c1	: 17	that	: 17
or	: 16	an	: 16	classi?cation	: 15	web	: 15
relations	: 15	d2	: 15	approach	: 15	if	: 15
sets	: 15	resources	: 14	relational	: 14	such	: 14
different	: 14	model	: 13	has	: 13	metadata	: 12
change	: 12	from	: 12	following	: 12	each	: 12
co-occurrence	: 12	attributes	: 12	among	: 12	into	: 12
existing	: 11	may	: 11	used	: 11	automatically	: 11
consists	: 10	applications	: 10	tgt	: 10	it	: 10
src	: 10	more	: 9	values	: 9	derived	: 9
shows	: 9	calculated	: 9	same	: 9	clustering	: 9
vectors	: 9	time	: 9	query	: 8	discovering	: 8
this	: 8	di	: 8	any	: 8	text	: 8
discovered	: 8	c2	: 8	equal	: 8	clustered	: 8
inserted	: 8	probabilistic	: 8	types	: 7	then	: 7
one	: 7	their	: 7	using	: 7	based	: 7
will	: 7	author	: 7	association	: 7	source	: 7
rule	: 7	nodes	: 6	t1	: 6	vector	: 6
discover	: 6	figure	: 6	its	: 6	was	: 6
similar	: 6	out	: 6	contents	: 6	pages	: 6
co-occur	: 6	when	: 6	associations	: 6	follows	: 6
way	: 6	weights	: 6	proposed	: 6	all	: 5
form	: 5	automatic	: 5	changes	: 5	type	: 5
subcluster	: 5	needs	: 5	them	: 5	evolution	: 5
not	: 5	represents	: 5	number	: 5	have	: 5
pair	: 5	means	: 5	during	: 5	target	: 5
relevant	: 5	belong	: 5	analysis	: 5	belongs	: 5
page	: 5	some	: 5	evolve	: 5	other	: 5
support	: 5	initial	: 5	hierarchical	: 5	exist	: 5
at	: 5	whereas	: 5	node	: 5	?nd	: 5
algorithm	: 5	content	: 4	occurrence	: 4	path	: 4
calculation	: 4	word	: 4	occur	: 4	words	: 4
statistical	: 4	instanceof	: 4	related	: 4	occurs	: 4
hence	: 4	adopted	: 4	measured	: 4	inferred	: 4
entities	: 4	where	: 4	ability	: 4	table	: 4
characteristics	: 4	sameauthor	: 4	connecting	: 4	expand	: 4

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class	: 4	jaccard	: 4	classi?cations	: 3	represent	: 3
global	: 3	graph	: 3	supports	: 3	method	: 3
rdf	: 3	explained	: 3	predict	: 3	lower-bounded	: 3
classify	: 3	typical	: 3	space	: 3	interference	: 3
increase	: 3	denoted	: 3	formula	: 3	upper-bounded	: 3
approaches	: 3	advantages	: 3	length	: 3	there	: 3
relationship	: 3	prediction	: 3	built	: 3	mechanism	: 3
which	: 3	knowledge	: 3	local	: 3	techniques	: 3
hyperlinks	: 3	discovery	: 3	citation	: 3	hyperlink	: 3
sub-networks	: 3	general	: 3	levels	: 3	world	: 3
regarded	: 3	advanced	: 3	necessary	: 3	predicting	: 3
stage	: 3	because	: 3	references	: 3	partof	: 3
comparing	: 3	only	: 3	technologies	: 3	recommendation	: 3
important	: 3	structure	: 3	limited	: 2	sim	: 2
calculate	: 2	results	: 2	level	: 2	large	: 2
imply	: 2	insertion	: 2	machines	: 2	even	: 2
cues	: 2	body	: 2	evolving	: 2	self-evolutionary	: 2
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re?ect	: 2	ontology	: 2	iteratively	: 2	specialized	: 2
example	: 2	attribute	: 2	minimum	: 2	information	: 2
worldview	: 2	after	: 2	k-nn	: 2	data	: 2
?rst	: 2	si	: 2	paper	: 2	chosen	: 2
li	: 2	they	: 2	loosely	: 2	arrow	: 2
found	: 2	weight	: 2	classifying	: 2	t2	: 2
adapt	: 2	newly	: 2	queries	: 2	given	: 2
besides	: 2	language	: 2	could	: 2	carry	: 2
structured	: 2	institution	: 2 : 2	wide	: 2	15	: 2
14	: 2	iteration	: 2 : 2	wide	: 2	classi?ed	: 2
paths	: 2	extracted	: 2	potential	: 2	added	: 2
construction	: 2 : 2	-rcb-	: 2 : 2	samejournal	: 2	relation	: 2
assertion	: 2 : 2	should	: 2 : 2	sequential	: 2	merged	: 2
kind	: 2	dx	: 2 : 2	resource	: 2	extends	: 2
exists	: 2		: 2 : 2		: 2	c2x	: 2
	: 2 : 2	acquired	: 2 : 2	wvtool	: 2	_	: 2 : 2
knowing		many		whole		large-scale	: 2 : 2
simple	: 2	considers	: 2	pr	: 2	basis	
easy	: 2	bayesian	: 2	these	: 2	coupled	: 2
ii	: 2	several	: 2	higher	: 2	independent	: 2
realizing	: 2	user	: 2	reference	: 2	extensible	: 2
assigned	: 2	useful	: 2	adding	: 2	• • •	: 2
c1x	: 2	classes	: 2	sim_content	: 2	semantically	: 2
process	: 2	slns	: 2	contains	: 2	but	: 2
larger	: 2	also	: 2	prede?ned	: 2	embedded	: 2
maximum	: 2	ui	: 2	autonomous	: 2	etc.	: 2
ar	: 2	in?uence	: 2	-lcb-	: 2	users	: 2
update	: 2	includes	: 2	generated	: 2	lead	: 2
calculates	: 2	cosine	: 2	n1	: 2	n2	: 2
n3	: 2	caused	: 1	focus	: 1	leads	: 1
layers	: 1	inverse	: 1	depend	: 1	editors	: 1
include	: 1	sameeditor	: 1	updated	: 1	very	: 1

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difference	: 1	exact	: 1	venue	: 1	attentions	: 1	
equation	: 1	cyber	: 1	implemented	: 1	what	: 1	
domain-speci?c	: 1	max pr	: 1	experiment	: 1	reconstruction	: 1	
time-consuming	: 1	focuses	: 1	human	: 1	component	: 1	
ranges	: 1	objects	: 1	address	: 1	represented	: 1	
obtained	: 1	search	: 1	de?ne	: 1	subsite	: 1	
sametopic	: 1	studied	: 1	anchor	: 1	domains	: 1	
formation	: 1	implement	: 1	suitable	: 1	via	: 1	
predicted	: 1	use	: 1	takes	: 1	would	: 1	
probabilities	: 1	manually	: 1	duplicate	: 1	explicitly	: 1	
therefore	: 1	recommend	: 1	until	: 1	separated	: 1	
sharing	: 1	comparison	: 1	documental	: 1	initiates	: 1	
appendix	: 1	normalized	: 1	iii	: 1	evolves	: 1	
challenge	: 1	share	: 1	belonging	: 1	topic	: 1	
indicates	: 1	counting	: 1	machine	: 1	maps	: 1	
intelligent	: 1	simplicity	: 1	description	: 1	publishtime	: 1	
representations	: 1	derives	: 1	third	: 1	documentation	: 1	
adoptability	: 1	algorithms	: 1	representation	: 1	retrieval	: 1	
evolutionary	: 1	over	: 1	mainly	: 1	www.w3.org/2004/o		
including	: 1	human-created	: 1	derive	: 1	22	: 1	
cocite	: 1	html	: 1	degrees	: 1	contextual	: 1	
framework	: 1	nor	: 1	inheriting	: 1	directories	: 1	
establishing	: 1	mode	: 1	assigning	: 1	mean	: 1	
rethinking	: 1	activate	: 1	hard	: 1	connect	: 1	
combining	: 1	event	: 1	integrates	: 1	publish	: 1	
issue	: 1	categorization	: 1	bayes	: 1	estimate	: 1	
pairs	: 1	determining	: 1	times	: 1	ruleml	: 1	
facilitate	: 1	major	: 1	features	: 1	instances	: 1	
done	: 1	open	: 1	size	: 1	little	: 1	
publication	: 1	unknown	: 1	needed	: 1	too	: 1	
ch	: 1	tool	: 1	lists	: 1	part	: 1	
authors	: 1	representing	: 1	semantics	: 1	11	: 1	
13	: 1	12	: 1	17	: 1	16	: 1	
19	: 1	18	: 1	second	: 1	sln-ds	: 1	
recording	: 1	future	: 1	pairwise	: 1	interactive	: 1	
topics	: 1	higher-level	: 1	null	: 1	answering	: 1	
take	: 1	measures	: 1	most	: 1	connected	: 1	
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order	: 1	graphs	: 1	sourceforge.net/p				: 1
show	: 1		: 1	threshold	: 1	find emergi	: 1	. 1
sameaf?liation		spaces hyperlinked	: 1	title	: 1	subcluster/partof		
	: 1 : 1	dn	: 1		: 1	<u>=</u>	: 1	
equipped	: 1 : 1		: 1	ranking	: 1 : 1	intractable	: 1 : 1	
preferred		joint		processes		proposes		
book	: 1	common	: 1	contain	: 1	through	: 1	
cycles	: 1	constructing	: 1	intelligence	: 1	humans	: 1	
edition	: 1	project	: 1	visualize	: 1	ways	: 1	
c2y	: 1	segment	: 1	consequence	: 1	libraries	: 1	
determined	: 1	various	: 1	drawn	: 1	neither	: 1	
we	: 1	nature	: 1	however	: 1	ranked	: 1	

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hypothesis	: 1	autonomy	: 1	topology	: 1	both	: 1	
uncertainty	: 1	logic	: 1	exceeds	: 1	comes	: 1	
2nd	: 1	learning	: 1	consuming	: 1	java	: 1	
publishing	: 1	union	: 1	optional	: 1	create	: 1	
been	: 1	attaching	: 1	describes	: 1	basic	: 1	
indicators	: 1	lr	: 1	enable	: 1	corresponding	: 1	
self-organized	: 1	sim vec	: 1	min pr	: 1	representative	: 1	
irrelevant	: 1	?nding	: 1	measuring	: 1	uncertain	: 1	
re?ects	: 1	expanded	: 1	www.w3.org/rdf/	: 1	document-based	: 1	
suppose	: 1	partitioned	: 1	sameconf	: 1	study	: 1	
adjusts	: 1	ir	: 1	middle	: 1	sameproject	: 1	
sequentially	: 1	containing	: 1	suggest	: 1	make	: 1	
linked	: 1	parts	: 1	largest	: 1	events	: 1	
swrl	: 1	extended	: 1	?exible	: 1	initialization	: 1	
usually	: 1	cr	: 1	keep	: 1	relies	: 1	
sameyear	: 1	well	: 1	thought	: 1	re?ned	: 1	
without	: 1	components	: 1	construct	: 1	appendices	: 1	
sameconference	: 1	communities	: 1	intervals	: 1	predicts	: 1	
instance	: 1	similarities	: 1	help	: 1	except	: 1	
appeared	: 1	add	: 1	combine	: 1	samples	: 1	
input	: 1	build	: 1	increased	: 1	grid	: 1	
know	: 1	background	: 1	intersection	: 1	name	: 1	
insert	: 1	like	: 1	success	: 1	systematically	: 1	
exploiting	: 1	reduces	: 1	cly	: 1	toccurs	: 1	
right	: 1	old	: 1	creation	: 1	searching	: 1	
library	: 1	statistic	: 1	single-pass	: 1	overlay	: 1	
recorded	: 1	overlap	: 1	does	: 1	provides	: 1	
refer	: 1	considering	: 1	equivalent	: 1	expansion	: 1	
self-organization	: 1	samelanguage	: 1	hierarchically	: 1	about	: 1	
package	: 1	rule-on-attribute	: 1	meaning	: 1	carries	: 1	
laterthan	: 1		: 1	shared	. 1 : 1	introduced	· 1	
software	: 1	act owl	: 1	orders	: 1	determine	: 1	
infer	: 1	utility	: 1	cocited	: 1	statistics	: 1	
		——————————————————————————————————————					: 1 : 1	
part-of	: 1	approximate	: 1	citations	: 1	in?uenced		
is-a	: 1	relation-based	: 1	speci?ed	: 1	promote	: 1	
production	: 1	journal/conference	: 1	average	: 1	high-dimensional	: 1	
result	: 1	interval	: 1	computing	: 1	certain	: 1	
abstract	: 1	ins	: 1	globally	: 1	formulation	: 1	
recalculated	: 1	C.	: 1	mutual	: 1	no	: 1	
generally	: 1	setting	: 1	compares	: 1	digital	: 1	
10	: 1	elements	: 1	kinds	: 1	models	: 1	
sln-e	: 1	building	: 1	factors	: 1	depth	: 1	
implied	: 1	requires	: 1	co-occurrences	: 1	www.w3.org/submiss	sion/swrl/: 1	
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['the', 'DT']		: 384 ['an	d', 'CC']	: 160	['of', 'IN']		: 153
['semantic', 'JJ']			cument',		: 94	['documents', 'NNS	S']	: 91
				•			-	
['links', 'NNS']			', 'TO']	,	: 84	['between', 'IN']		: 72

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['-lrb-', '-LRB-'] ['rules', 'NNS'] ['is', 'VBZ'] ['clusters', 'NNS'] ['by', 'IN'] ['on', 'IN']	: 65	['can', 'MD']	: 63	<pre>['-rrb-', '-RRB-'] ['are', 'VBP'] ['in', 'IN'] ['as', 'IN'] ['reasoning', 'NN']</pre>	: 63
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['clusters', 'NNS']	: 43	['link', 'NN']	: 43	['as', 'IN']	: 37
['bv'. 'TN']	: 37	['keywords', 'NNS']	: 34	['reasoning'. 'NN']	: 28
['on', 'IN']	: 27	['probability', 'NN']		l'aln' 'NNP'I	• 74
['network', 'NN']	: 24	['for', 'IN']	: 23	['similarity', 'NN']	: 23
['keyword' '.T.T']	• 27	['sln-d', 'NNP']	: 21	[!two!!CD!]	: 20
<pre>['keyword', 'JJ'] ['with', 'IN'] ['networks', 'NNS']</pre>	. 22	[SIN a , NNI]		['two', 'CD'] ['according', 'VBG'] ['new', 'JJ']	: 18
[WICH , IN]	. 19	['-rsb-', 'NNS'] ['or', 'CC'] ['approach', 'NN']	: 16	['new', 'JJ']	: 16
[Hetworks , NNS]	. 10	[OI , CC]	. 10 . 1F		
['an', 'DT'] ['if', 'IN'] ['resources', 'NNS']	: 16 : 15	['approach', 'NN']	: 15 : 14	['sets', 'NNS']	: 15
['II', 'IN']	: 15	['such', 'JJ']	: 14	['different', 'JJ']	
['resources', 'NNS']	: 14	['classi?cation', 'NN']	: 13	['model', 'NN']	: 13
['nas', 'VBZ']	: 13	['d1', 'NNS']	: 13	['relations', 'NNS']	: 13
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['-lsb-', 'CD']	: 8	['this', 'DT']	: 8	['source', 'NN']	
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['author', 'NN'] ['their', 'PRP\$'] ['association', 'NN'] ['then', 'RB'] ['web', 'NNP'] ['figure', 'NN'] ['contents', 'NNS']	• 7	['derived' 'VBN']	: 7	['d2', 'NNS']	• , • 7
['association' 'NN']	• 7	['derived', 'VBN'] ['d1', 'CD']	: 7	['using', 'VBG']	
[!then! !PR!]	• 7	['-lsh-' 'NND']	• 7	['types', 'NNS']	
[Lich! ND]	• 7	[TSD , NNI]	• 6	[!follows! !VP7!]	: 6
[Web , NNF]	• 6	[vector , NN]	. 6	[IOIIOWS , VDZ]	: 6
[ligure , NN]	. 6	['-lsb-', 'NNP'] ['vector', 'NN'] ['proposed', 'VBN'] ['one', 'CD']	. 6	<pre>['follows', 'VBZ'] ['clustering', 'NN'] ['discover', 'VB']</pre>	: 6
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['d2', 'CD']	: 6	['its', 'PRP\$']	: 6	['weights', 'NNS']	: 6
['rule', 'NN']	: 6		: 6	[,IOTTOMING,', ,AA,]	: 6
['Way', 'NN']	: 0	['associations', 'NNS']	: 6	['target', 'NN']	: 5
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['tgt', 'NN']	: 5	['needs', 'VBZ']	: 5	['represents', 'VBZ']	: 5
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['eln_d' 'NN']	• 3	[!approaches! !NNC!]	. 3	[chac , Di]	. 3
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E. I. I. James I. J.	: 2	5.1	^	f. i. i. i. i. i. i.	: 1
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[brocesses ' ADV]	• 1	[110 , DI]	• 1	[seducititating ' VD]	• ±

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['extended', 'VBN'] ['background', 'NN'] ['ui', 'VBP'] ['production', 'NN'] ['act', 'VB'] ['considered', 'VBN'] ['inference', 'NNP'] ['cause', 'VB'] ['containing', 'VBG'] ['relies', 'VBZ'] ['insertion', 'NN'] ['laterthan', 'NN'] ['determined', 'VBN'] ['time-consuming', 'JJ'] ['right', 'JJ'] ['degrees', 'NNS']	: 1	['ways', 'NNS']	: 1	['logic', 'NNP']	: 1
['background', 'NN']	: 1	['carries', 'VBZ']	: 1	['library', 'NN']	: 1
['ui', 'VBP']	: 1	['communities', 'NNS']	: 1	['partof', 'NN']	: 1
['production', 'NN']	: 1	['self-organized', 'JJ']	• 1	['irrelevant'. 'JJ']	• 1
['act' 'VB']	· 1	['order' 'NN']	• 1	['caused' 'VBN']	• 1
['considered' 'VBN']	• ± • 1	['various' 'JJ']	• ±	['huild' 'VB']	• - • 1
[!informac! !NND!]	• ± • 1	['mainly' 'DD']	• 1	['provides' 'VP7']	• ± • 1
[Interence , NNF]	• ± • 1	[maining , RD]	• 1	[provides , VBZ]	• ± • 1
[cause , vb]	• 1	[reconstruction , NN]	• 1	[Cyper , NN]	• <u>1</u>
['Containing', 'VBG']	; <u>1</u>	['ODJECTS', 'NNS']	; <u>1</u>	['recording', 'VBG']	; <u>1</u>
['relies', 'VBZ']	: 1	['implement', 'VB']	; 1	['sim_content', 'NN']	: 1
['insertion', 'NN']	: 1	['abstract', 'JJ']	: 1	['algorithm', 'NNP']	: 1
['laterthan', 'NN']	: 1	['use', 'VBP']	: 1	['sequential', 'JJ']	: 1
['determined', 'VBN']	: 1	['increased', 'VBN']	: 1	['libraries', 'NNS']	: 1
['time-consuming', 'JJ']	: 1	['create', 'VB']	: 1	['utility', 'NN']	: 1
['right', 'JJ']	: 1	['too', 'RB']	: 1	['measures', 'NNS']	: 1
['relies', 'VBZ'] ['insertion', 'NN'] ['laterthan', 'NN'] ['determined', 'VBN'] ['time-consuming', 'JJ'] ['right', 'JJ'] ['degrees', 'NNS']	: 1	['most', 'RBS']	: 1	['cr', 'NNP']	: 1
['factors', 'NNS']	: 1	['components', 'NNS']	: 1	['autonomy', 'NN']	: 1
['instances', 'NNS']	: 1	['component', 'NN']	: 1	['integrates', 'VBZ']	: 1
['explicitly', 'RB']	: 1	['establishing', 'VBG']	: 1	['sameyear', 'NN']	: 1
['add', 'VB']	: 1	['systematically', 'RB']	: 1	['basic', 'JJ']	: 1
['sln-d', 'JJ']	: 1	['insert', 'VB']	: 1	['contain', 'VBP']	: 1
['events', 'NNS']	: 1	['very', 'RB']	: 1	['editors', 'NNS']	: 1
['duplicate', 'JJ']	: 1	['counting', 'VBG']	: 1	['mode', 'NN']	: 1
['recalculated', 'JJ']	: 1	['instance', 'NN']	: 1	['evolutionary', 'JJ']	: 1
['subsite', 'JJ']	: 1	['speci?ed', 'JJ']	: 1	['lists', 'VBZ']	: 1
['representations', 'NNS']	: 1	['formation', 'NN']	: 1	['human-created', 'JJ']	: 1
['suppose', 'VB']	: 1	['recommend', 'VB']	• 1	['shared', 'VBN']	: 1
['ch', 'NN']	: 1	['slns'. 'NNP']	• 1	['suggest', 'VBP']	: 1
['find', 'JJ']	· 1	['inheriting' 'VBG']	• 1	['description' 'NNP']	• 1
['cocite' 'NN']	• ± • 1	['similarities' 'NNS']	· 1	['10' 'CD']	• ± • 1
['ranked' 'VBN']	• ±	['infar' 'VR']	• 1	['cosine' '.T.T']	• ± • 1
[!singlo-pass! !II!]	• ± • 1	[!samoproject! !NN!]	• 1	[cosine , oo]	• 1
[single-pass , oo]	• ±	[Sameproject , NN]	. 1	[SIC , VD]	• ± • 1
['Constructing', 'VBG']	; <u>1</u>	['IO', 'CD']	; <u>1</u>	['experiment', 'NN']	; <u>1</u>
['Journal/Conterence', 'NN']	; <u>1</u>	['Inserted', 'OO']	• <u>1</u>	[TIIS , NN]	; <u>1</u>
['tgt', 'VB']	; <u>1</u>	['ranking', 'VBG']	; <u>1</u>	['Sharing', 'NN']	; <u>1</u>
[,1,,,,,,,,,]	: 1	['predicts', 'VBZ']	; 1	['answering', 'VBG']	: 1
['cluster', 'VB']	: 1	['overlay', 'NN']	: 1	['-rsb-', 'JJ']	: 1
['neighboring', 'JJ']	: 1	['adoptability', 'NN']	: 1	['issue', 'NN']	: 1
['documentation', 'NN']	: 1	['future', 'JJ']	: 1	<pre>['utility', 'NN'] ['measures', 'NNS'] ['cr', 'NNP'] ['autonomy', 'NN'] ['integrates', 'VBZ'] ['sameyear', 'NN'] ['basic', 'JJ'] ['contain', 'VBP'] ['editors', 'NNS'] ['mode', 'NN'] ['evolutionary', 'JJ'] ['lists', 'VBZ'] ['human-created', 'JJ'] ['shared', 'VBN'] ['suggest', 'VBP'] ['description', 'NNP'] ['10', 'CD'] ['cosine', 'JJ'] ['src', 'VB'] ['experiment', 'NN'] ['ins', 'NN'] ['answering', 'VBG'] ['-rsb-', 'JJ'] ['issue', 'NN'] ['common', 'JJ'] ['consuming', 'VBG'] ['predict', 'VBP']</pre>	: 1
['name', 'NN']	: 1	['bayes', 'NNP']	: 1	['occur', 'VB']	: 1
['visualize', 'VB']	: 1	['study', 'VB']	: 1	['consuming', 'VBG']	: 1
[additors , mis]	• ±	[macaar , oo]	• ±	[predict , vbr]	• ±
['samples', 'NNS']	: 1	['help', 'VB']	: 1	['sameconf', 'NN']	: 1
['done', 'VBN']	: 1	['sameeditor', 'NN']	: 1	['generated', 'JJ']	: 1
['world', 'NN']	: 1	['represent', 'VBP']	: 1	['normalized', 'VBN']	: 1
['layers', 'NNS']	: 1	['determine', 'VB']	: 1	<pre>['self-evolutionary', 'VB']</pre>	: 1
['support', 'VBP']	: 1	['middle', 'JJ']	: 1	['tgt', 'CD']	: 1
['predicted', 'VBN']	: 1	-			

W Pdic:			
limited	: ['JJ']	all	: ['PDT', 'DT']
classi?cations	: ['JJ', 'NNS']	semantic	: ['JJ', 'NN', 'NNP']
represent	: ['VB', 'VBP']	caused	: ['VBN']
global	: ['JJ']	focus	: ['VBP']
existing	: ['VBG']	leads	: ['VBZ']
sim	: ['NN']	consists	: ['VBZ']
query	: ['JJ', 'NN']	reasoning	: ['NN']
layers	: ['NNS']	content	: ['NN']
inverse	: ['JJ']	depend	: ['VBP']
calculate	: ['VB']	graph	: ['NN', 'JJ']
similarity	: ['NN', 'NNP']	editors	: ['NNS']
to	: ['TO']	discovering	: ['VBG']
nodes	: ['NNS']	include	: ['VBP']
resources	: ['NNS']	sameeditor	: ['NN']
updated	: ['VBN']	very	: ['RB']
results	: ['NNS']	difference	: ['NN']
exact	: ['JJ']	level	: ['NN']
supports	: ['VBZ']	venue	: ['NN']
t1	: ['NNP', 'NN', 'NNS']	large	: ['JJ']
vector	: ['NN']	form	: ['NN', 'VBP']
attentions	: ['NNS']	equation	: ['NNP']
the	: ['DT']	occurrence	: ['NN', 'VBZ', 'NNP']
be	: ['VB']	discover	: ['VB']
cyber	: ['NN']	keywords	: ['NNS', 'VBZ']
imply	: ['VBP']	insertion	: ['VBP', 'NN']
implemented	: ['VBN']	machines	: ['NNS']
even	: ['RB']	what	: ['WP']
cues	: ['NNS']	domain-speci?c	: ['JJ']
classi?cation	: ['NN', 'NNP', 'JJ']	max pr	: ['NNP']
networks	: ['NNS']	experiment	: ['NN']
reconstruction	: ['NN']	time-consuming	: ['JJ']
method	: ['NN']	metadata	: ['NN', 'NNP']
body	: ['NN']	evolving	: ['VBG', 'NNP']
focuses	: ['VBZ']	self-evolutionary	: ['JJ', 'VB']
scienti?c	: ['JJ']	respectively	: ['RB']
human	: ['JJ']	component	: ['NN']
automatic	: ['JJ', 'NNP', 'VB']	ranges	: ['NNS']
objects	: ['NNS']	let	: ['VB']
web	: ['NNP', 'NN', 'JJ']	address	: ['NN']
represented	: ['VBN']	path	: ['NN']
change	: ['NN', 'VBP', 'VB', 'NNP']	obtained	: ['VBN']
search	: ['NN']	de?ne	: ['VB']
subsite	: ['JJ']	sametopic	: ['JJ']
studied	: ['VBN']	step	: ['NN']
anchor	: ['VB']	rdf	: ['NNP']
domains	: ['NNS']	formation	: ['NN']
implement	: ['VB']	suitable	: ['JJ']
changes	: ['NNS']	re?ect	: ['VBP']
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The mb_reprogrammeonpoorer			2010-17110-11-1
via	: ['IN']	<pre>inference : ['NN', 'JJ',</pre>	'NNP', 'VBP']
explained	: ['VBN']	<pre>predicted : ['VBN']</pre>	
use	: ['VBP']	ontology : ['NN']	
from	: ['IN']	takes : ['VBZ']	
would	: ['MD']	probabilities : ['NNS']	
manually	: ['RB']	two : ['CD']	
calculation	: ['NN']	duplicate : ['JJ']	
explicitly	: ['RB']	therefore : ['RB']	
recommend	: ['VB']	<pre>iteratively : ['RB']</pre>	
type	: ['NN']	until : ['IN']	
more	: ['RBR', 'JJR']	separated : ['VBN']	
sharing	: ['NN']	comparison : ['NN']	
documental	: ['JJ']	initiates : ['VBZ']	
appendix	: ['NN']	normalized : ['VBN']	
iii	: ['NNP']	evolves : ['VBZ']	
word	: ['NN']	cluster : ['VB', 'NN',	'NNP', 'JJ']
this	: ['DT']	challenge : ['NN']	,
values	: ['NNS']	can : ['MD']	
subcluster	: ['NN']	following : ['JJ', 'VBG'	1
specialized	: ['VBN']	example : ['NN']	
figure	: ['NN']	predict : ['VB', 'VBP'	1
attribute	: ['NNP']	share : ['VB']	•
belonging	: ['VBG']	topic : ['NN']	
indicates	: ['VBZ']	minimum : ['JJ']	
lower-bounded	: ['JJ']	counting : ['VBG']	
occur	: ['JJ', 'VB']	information : ['NN']	
needs	: ['VBZ']	worldview : ['NN']	
di	: ['NNP', 'FW']	machine : ['NN']	
maps	: ['NNS']	intelligent : ['JJ']	
classify	: ['VB']	simplicity : ['NN']	
description	: ['NNP']	may : ['MD']	
after	: ['IN']	derived : ['VBN', 'JJ'	1
publishtime	: ['NN']	applications : ['NNS']	1
k-nn	: ['JJ']	representations : ['NNS']	
derives	: ['VBZ']	data : ['NN', 'NNS'	1
types	: ['NNS']	?rst : ['JJ', 'NN']	I .
third	: ['JJ']	documentation : ['NN']	
adoptability	: ['NN']	or : ['CC']	
si	: ['NN']	algorithms : ['NNS']	
representation	: ['NN']	retrieval : ['NN']	
typical	: ['JJ']	evolutionary : ['JJ']	
words	: ['NNS']	over : ['IN']	
mainly	: ['RB']	www.w3.org/2004/owl/: ['NNP']	
	. ['NN']	including : ['VBG']	
paper statistical	. [MN] : ['JJ']	its : ['PRP\$']	
human-created	. [33] : ['JJ']	derive : ['VB']	
22	. ['GD']	chosen : ['VBN']	
cocite	: ['NN']	li : ['NN']	
html			
11 LIII 1	: ['JJ']	degrees : ['NNS']	

1.11 II.D_Tiprogramiconpsetor	L_Telation(vvii)equence(vvF1 1000 to.txt		2010年1月10日 9.44
clusters	: ['NNS']	contextual : ['JJ']	
then	: ['RB']	them : ['PRP']	
was	: ['VBD']	similar : ['JJ', 'VBG']	
evolution	: ['NN']	<pre>framework : ['NN']</pre>	
they	: ['PRP']	not : ['RB']	
nor	: ['CC']	<pre>instanceof : ['NN']</pre>	
represents	: ['VBZ']	document : ['NN', 'NNS', 'NNP',	'VB', 'FW']
inheriting	: ['VBG']	directories : ['NNS']	
loosely	: ['VB']	establishing : ['VBG']	
-lsb-	: ['CD', 'NNP', 'VBG']	mode : ['NN']	
arrow	: ['NN']	each : ['DT']	
assigning	: ['VBG']	found : ['VBN']	
mean	: ['NN']	rethinking : ['VBG']	
activate	: ['VBP']	weight : ['NN']	
classifying	: ['VBG']	t2 : ['NNP']	
hard	: ['JJ']	co-occurrence : ['NN', 'JJ']	
related	: ['VBN', 'JJ']	used : ['VBN']	
connect	: ['VBP']	combining : ['VBG']	
event	: ['NN']	out : ['RP']	
network	: ['NN']	space : ['NN']	
integrates	: ['VBZ']	interference : ['NN']	
publish	: ['JJ']	<pre>increase : ['NN', 'VB']</pre>	
adapt	: ['VB']	denoted : ['VBN']	
formula	: ['NN']	newly : ['RB']	
issue	: ['NN']	upper-bounded : ['JJ']	
shows	: ['VBZ']	occurs : ['VBZ']	
queries	: ['NNS']	given : ['VBN']	
approaches	: ['NNS']	categorization : ['NN']	
advantages	: ['NNS']	bayes : ['NNP']	
besides	: ['IN']	estimate : ['VB']	
pairs	: ['NNS']	language : ['NN']	
determining	: ['VBG']	could : ['MD']	
times	: ['NNS']	length : ['NN']	
ruleml	: ['NNP']	hence : ['RB']	
relational	: ['JJ', 'NNP', 'NN']	<pre>facilitate : ['VB']</pre>	
major	: ['JJ']	there : ['EX']	
features	: ['NNS']	<pre>probability : ['NN']</pre>	
number	: ['NN']	one : ['CD', 'NN']	
instances	: ['NNS']	done : ['VBN']	
relations	: ['NNS', 'NNP']	such : ['JJ']	
carry	: ['VB']	open : ['JJ']	
size	: ['NN']	little : ['JJ']	
publication	: ['NN']	their : ['PRP\$']	
unknown	: ['JJ']	structured : ['JJ']	
adopted	: ['JJ', 'VBN']	needed : ['VBN']	
too	: ['RB']	relationship : ['NN', 'JJ']	
using	: ['VBG']	ch : ['NN']	
tool	: ['NNS']	lists : ['VBZ']	
prediction	: ['NNP', 'VBZ', 'NN']	part : ['NN']	

1.1FII.D_I\program\cinpse\c	DE_Telation(vvirequence(vvF1 1000 to.txt		2010年7月10日 9.44
authors	: ['NNS']	representing : ['VBG']	
institution	: ['NN']	semantics : ['NNP']	
11	: ['CD']	wide : ['NNP']	
13	: ['CD']	12 : ['CD']	
15	: ['CD']	14 : ['CD']	
17	: ['CD']	16 : ['CD']	
19	: ['CD']	18 : ['CD']	
iteration	: ['NN']	second : ['JJ']	
sln-ds	: ['NNS']	recording : ['VBG']	
future	: ['JJ']	pairwise : ['JJ']	
were	: ['VBD']	classi?ed : ['VBN']	
interactive	: ['JJ']	and : ['CC', 'NNP']	
topics	: ['NNS']	higher-level : ['JJ']	
have	: ['VBP', 'VB']	null : ['NN']	
any	: ['DT']	contents : ['NNS']	
paths	: ['NNS']	documents : ['NNS', 'NNP']	
built	: ['VBN']	answering : ['VBG']	
mechanism	: ['NN']	extracted : ['VBN']	
potential	: ['JJ']	take : ['VBP']	
which	: ['WDT']	added : ['VBN']	
measures	: ['NNS']	most : ['RBS']	
connected	: ['JJ']	pair : ['NN']	
measured	: ['VBN']	pages : ['NNS']	
inconsistency	: ['RB']	cause : ['VB']	
considered	: ['VBN']	neighboring : ['JJ']	
calculated	: ['VBN']	inferred : ['VBN']	
order	: ['NN']	graphs : ['NNS']	
construction	: ['NN']	sourceforge.net/projects/wvtool: ['JJ']	
-rcb-	: ['-RRB-']	emerging : ['VBG']	
show	: ['VBP']	samejournal : ['NN']	
text	: ['NN']	discovered : ['VBN', 'JJ']	
spaces	: ['NNS']	relation : ['NN']	
threshold	: ['NN']	co-occur : ['JJ', 'NN']	
d2	: ['CD', 'NNS', 'JJ']	find : ['JJ']	
d1	: ['NNS', 'CD', 'NNP', 'JJ']	sameaf?liation : ['NN']	
hyperlinked	: ['JJ']	based : ['VBN']	
knowledge	: ['NNP', 'NN']	title : ['NN']	
assertion	: ['NN']	should : ['MD']	
entities	: ['NNS']	subcluster/partof : ['NN']	
sequential	: ['NN', 'JJ']	equipped : ['VBN']	
local	: ['JJ']	merged : ['VBN']	
dn	: ['RB']	ranking : ['VBG']	
intractable	: ['JJ']	means : ['VBZ']	
kind	: ['NN']	preferred : ['VBN']	
joint	: ['JJ']	dx : ['VBP', 'NN']	
new	: ['JJ', 'NNP']	during : ['IN']	
	: ['NN']	processes : ['VBZ']	
target resource	: ['NN', 'NNP']	keyword : ['JJ', 'NNP', 'NN', 'VBN', 'VBD']	
proposes	: ['VBZ']	extends : ['VBZ']	

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book	: ['NN']	common	: ['JJ']
contain	: ['VBP']	through	: ['IN']
cycles	: ['NNS']	where	: ['WRB']
set	: ['VBN', 'NN', 'VBD']	constructing	: ['VBG']
exists	: ['VBZ']	acquired	: ['VBN']
intelligence	: ['NN']	humans	: ['NNS']
wvtool	: ['NN']	edition	: ['NN']
are	: ['VBP']	-rsb-	: ['NN', 'NNP', 'NNS', 'CD', 'JJ']
techniques	: ['NNS']	project	: ['NN']
visualize	: ['VB']	ways	: ['NNS']
c2x	: ['NNS']	c2y	: ['NNS']
segment	: ['NN']	consequence	: ['NN']
libraries	: ['NNS']	hyperlinks	: ['NNS', 'VB']
determined	: ['VBN']	various	: ['JJ']
between	: ['IN']	drawn	: ['VBN']
neither	: ['CC']	approach	: ['NN']
discovery	: ['NN']	knowing	: ['VBG']
we	: ['PRP']	ability	: ['NN']
nature	: ['NN']	citation	: ['NNP', 'NN']
however	: ['RB']	ranked	: ['VBN']
hypothesis	: ['NNS']	autonomy	: ['NN']
topology	: ['NN']	both	: ['PDT']
hyperlink	: ['NN']	many	: ['JJ']
uncertainty	: ['NN']	according	: ['VBG']
logic	: ['NNP']	exceeds	: ['VBZ']
attributes	: ['NNS', 'VBZ']	whole	: ['JJ']
comes	: ['VBZ']	among	: ['IN']
relevant	: ['JJ']	tgt	: ['VB', 'NN', 'CD', 'RB', 'NNS']
large-scale	: ['JJ']	simple	: ['JJ']
2nd	: ['JJ']	learning	: ['NN']
table	: ['NNP']	considers	: ['VBZ']
pr	: ['NNP']	consuming	: ['VBG']
- java	: ['NN']	publishing	: ['NN']
basis	: ['NN']	union	: ['NN']
optional	: ['JJ']	create	: ['VB']
-rrb-	: ['-RRB-']	been	: ['VBN']
attaching	: ['VBG']	sub-networks	: ['NNS']
describes	: ['VBZ']	basic	: ['JJ']
indicators	: ['NNS']	lr	: ['NNP']
enable	: ['VBP']	corresponding	: ['JJ']
easy	: ['JJ']	self-organized	: ['JJ']
sim vec	: ['JJ']	min pr	: ['NNP']
representative	: ['JJ']	bayesian	: ['NNP']
c2	: ['NNP', 'NNS', 'CD', 'JJ']	c1	: ['NNP', 'NNS', 'CD']
general	: ['JJ']	irrelevant	: ['JJ']
?nding	: ['VBG']	measuring	: ['VBG']
uncertain	: ['JJ']	re?ects	: ['VBZ']
these	: ['DT']	expanded	: ['VBN']
www.w3.org/rdf/	: ['NNP']	will	: ['MD']

document-based	: ['JJ']	sln	: ['NNP', 'NN']	
suppose	: ['VB']	partitioned	: ['VBN']	
sameconf	: ['NN']	study	: ['VB']	
adjusts	: ['VBZ']	coupled	: ['JJ', 'VBN']	
characteristics	: ['NNS']	is	: ['VBZ']	
ir	: ['NNP']	it	: ['PRP']	
equal	: ['JJ']	ii	: ['NNP']	
middle	: ['JJ']	in	: ['IN']	
sameproject	: ['NN']	if	: ['IN']	
sequentially	: ['RB']	containing	: ['VBG']	
author	: ['NN']	suggest	: ['VBP']	
make	: ['VB']	belong	: ['VB', 'VBP']	
same	: ['JJ']	linked	: ['VBN']	
parts	: ['NNS']	largest	: ['JJS']	
=		_		
several	: ['JJ']	events	: ['NNS']	
higher	: ['JJR']	swrl	: ['NNP']	
independent	: ['JJ']	extended	: ['VBN']	
realizing	: ['VBG']	?exible	: ['JJ']	
initialization	: ['NN']	usually	: ['RB']	
levels	: ['NNS']	user	: ['NN']	
on	: ['IN']	cr	: ['NNP']	
reference	: ['NN']	keep	: ['VBP']	
relies	: ['VBZ']	sameyear	: ['NN']	
well	: ['RB']	analysis	: ['NN']	
thought	: ['NN']	re?ned	: ['VBN']	
without	: ['IN']	extensible	: ['JJ', 'VBP']	
components	: ['NNS']	sets	: ['NNS']	
model	: ['NN']	construct	: ['VB']	
appendices	: ['NNS']	sameconference	: ['NN']	
when	: ['WRB']	assigned	: ['VBN']	
communities	: ['NNS']	intervals	: ['NNS']	
predicts	: ['VBZ']	world	: ['NNP', 'NN']	
=				
useful	: ['JJ']	adding	: ['VBG']	
instance	: ['NN']	similarities	: ['NNS']	
regarded	: ['VBN']	help	: ['VB']	
except	: ['IN']	appeared	: ['VBD']	
add	: ['VB']	belongs	: ['VBZ']	
combine	: ['VB']	association	: ['NN']	
samples	: ['NNS']	input	: ['NN']	
has	: ['VBZ']	build	: ['VB']	
associations	: ['NNS']	• • •	: [':']	
increased	: ['VBN']	rules	: ['NNS']	
grid	: ['NNP']	know	: ['VB']	
background	: ['NN']	clustered	: ['VBN']	
sameauthor	: ['NN']	intersection	: ['NN']	
advanced	: ['JJ']	name	: ['NN']	
insert	: ['VB']	necessary	: ['JJ']	
like	: ['IN']	success	: ['NN']	
systematically	: ['RB']	exploiting	: ['VBG']	
<u>systematically</u>	• [VD]	exprorerilg	• [PO]	

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reduces	:	['VBZ']	c1y	:	: ['NNS']
c1x	:	['NNS']	follows	:	: ['VBZ']
toccurs	:	['VBZ']	page	:	: ['NN', 'IN']
right	:	['JJ']	old	:	: ['JJ']
creation	:	['NN']	some	:	: ['DT']
searching	:	['VBG']	library	:	: ['NN']
statistic		['NN']	single-pass		: ['JJ']
classes		['NNS']	for		: ['IN']
overlay	:	['NN']	recorded		: ['VBN']
overlap	:	['NN']	does		: ['VBZ']
connecting	:	['JJ', 'VBG']	provides	:	: ['VBZ']
sim content		['NN', 'JJ']	semantically	:	: ['RB']
refer		['JJ']	expand		: ['VB']
considering		['VBG']	process	:	: ['NN']
equivalent		['JJ']	predicting		: ['VBG']
expansion		['NN']	self-organization		: ['NN']
evolve		['VBZ', 'VB']	samelanguage	:	: ['NN']
hierarchically		['RB']	by		: ['IN']
stage		['NN']	src		: ['VB', 'NN']
about		['IN']	slns		: ['NNS', 'NNP']
package		['NN']	of		: ['IN']
rule-on-attribute		['NNP']	meaning		: ['VBG']
carries		['VBZ']	laterthan		: ['NN']
act		['VB']	shared		:['VBN']
introduced		['VBN']	other		: ['JJ']
automatically		['RB']	software		: ['NN']
owl		['NNP']	contains		: ['VBZ']
orders		['NNS']	into		: ['IN']
because		['RB', 'IN']	references		: ['NNS']
determine		['VB']	infer		: ['VB']
partof		['NN', 'JJ']	utility		: ['NN']
clustering		['NN', 'VBG']	cocited		: ['VBD']
statistics		['NNS']	part-of		: ['NNP']
comparing		['VBG']	inserted		: ['VBN', 'JJ']
support		['VB', 'VBP']	initial		: ['JJ']
approximate		['JJ']	class		: ['NN']
citations		['NNS']	way		: ['NN']
in?uenced		['VBN']	is-a		: ['NNP']
relation-based		['JJ']	only		: ['RB']
an		['DT']	speci?ed		: ['JJ']
but		['CC']	hierarchical		: ['JJ']
link		['NN', 'VB', 'VBP']	larger		: ['JJR']
-lrb-		['-LRB-']	technologies		: ['NNS']
promote		['VB']	with		: ['IN']
production		['NN']	also		: ['RB']
prede?ned		['JJ', 'VBD']	embedded		: ['JJ']
probabilistic		['JJ']	maximum		: ['JJ']
different		['JJ']	journal/conference		: ['NN']
ui		['VBP', 'NN']	autonomous		: ['JJ', 'VB']
		- , -			

etc.	: ['FW']	average	: ['JJ']
high-dimensional	: ['JJ']	result	: ['NN']
interval	: ['NN']	links	: ['NNS', 'VBZ']
computing	: ['VBG']	certain	: ['JJ']
abstract	: ['JJ']	recommendation	: ['NN']
ins	: ['NN']	globally	: ['RB']
as	: ['IN', 'RB']	ar	: ['NNP']
exist	: ['VBP', 'VB']	at	: ['IN']
formulation	: ['NN']	in?uence	: ['VB']
recalculated	: ['JJ']	C.	: ['NN']
mutual	: ['JJ']	-lcb-	: ['-LRB-']
no	: ['DT']	whereas	: ['IN']
generally	: ['RB']	that	: ['IN', 'WDT', 'DT']
setting	: ['VBG']	compares	: ['VBZ']
digital	: ['JJ']	weights	: ['NNS']
10	: ['CD']	node	: ['NN']
?nd	: ['NN', 'VB', 'VBP']	elements	: ['NNS']
kinds	: ['NNS']	users	: ['NNS']
jaccard	: ['NN', 'NNP']	models	: ['NNS']
update	: ['NN']	includes	: ['VBZ']
generated	: ['VBN', 'JJ']	important	: ['JJ']
vectors	: ['NNS', 'VBZ']	sln-e	: ['NN']
sln-d	: ['NNP', 'NN', 'JJ']	structure	: ['NN']
source	: ['NN']	building	: ['VBG']
lead	: ['VB']	algorithm	: ['NN', 'NNP']
proposed	: ['VBN']	factors	: ['NNS']
rule	: ['VBZ', 'NN']	calculates	: ['VBZ']
cosine	: ['NN', 'JJ']	depth	: ['NN']
implied	: ['VBN']	time	: ['NN']
n1	: ['NNP']	n2	: ['NNP']
n3	: ['NNP']	requires	: ['VBZ']
co-occurrences	: ['JJ']	www.w3.org/submis	ssion/swrl/: ['CD']