

TV TV
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Automatic Background Keyword of Movie Extraction Method from Media Reviews

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(/)

가

1.

2.

TV,

가

가

[1]가
TF-IDF

가

가

가
[2],

(2013 9)

가
105,126

가

가

[3, 4, 5, 6].

3.

3.1

가
[PERSON, STUDY_FIELD, THEORY, ARTIFACTS, ORGANIZATION, LOCATION, CIVILIZATION, DATE, TIME, QUANTITY, EVENT, ANIMAL, PLANT, MATERIAL, TERM] 15

가가
3

125

가

가
가

TIME

2005 1 ~ 2012

LOCATION

8 (92)

< 1>

3.3

< 1>

	2,592
	4,171
	1.61
가	1,468 (15.96 /month)
가	1,307 (14.21 /month)
가	836 (9.07 /month)

가

가가

가

가가

92

2,592

가

1,468

16

가

1

가

14

836

가

9

가

가

i)

TIME/LOCATION

ii)

가

N

가

3.2

4.

가

가

가

(Recall Rate)

가

가

(Precision Rate)

< 2> R=2,N=2
 가 2 1,307
 (14.21 /month) 2
 365
 65.42%
 826 (9.07 /month) 3 가 5.
 2
 826 /
 595 (72.03%), 293 (35.7%)

< 3> / 100

	85%
	81%

 가
 2005 ~ 2012
 가
 85%, 81%

< 2> R N

	R=2, N=2	R=3, N=2	R=3, N=3
	855 (65.42%)	595 (72.03%)	376 (45.52%)
	365 (27.93%)	293 (35.47%)	106 (12.83%)

가
 “ ”
 “ ”
 가
 R=3, N2
 가
 1.47
 /
 100
 100
 85
 85%
 100
 81
 가
 81%

[1] Salton, G., “Automatic Text Processing: The Transformation, Analysis, and Retrieval of Information by Computer”, Addison-Wesley, 1989.
 [2] Salton, G., “Developments in automatic text retrieval.”, Science 253, pp.974 –980. 1991.
 [3] A. Hulth, J. Karlgren, A. Jonsson, H. Bostrom, and L. Asker, “Automatic keyword extraction using domain knowledge”, Computational Linguistics and Intelligent Text Processing, 2004
 [4] F.M. Suchanek, G. Kasneci, and G. Weikum, “Yago: a core of semantic knowledge unifying WordNet and Wikipedia”, in Proc. of the 16th International Conference on World Wide Web, WWW2006, Banff, Canada, 2007
 [5] M. Vidal, G.V. Menezes, K. Berit, E.S de Moura, “Selecting keywords to represent web pages using Wikipedia information”, in Proc. of the 18th Brazilian symposium on Multimedia and the web WebMedia '12, pp.375-382, 2012
 [6] L.H. Lee, D. Isa, W.O. Choo, W.Y. Chue, “High Relevance Keyword Extraction facility for Bayesian text classification on different domains of varying characteristic”, Expert Systems with Applications, pp. 1147-1155, 2012