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SNS

Web
Web

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Abstract On the Internet, contents such as news videos and news photos are increasing. Techniques to browse and search these news contents efficiently are needed. We propose a method to match news videos from broadcast TV or video-sharing sites with Web images by matching videos and images. Through this process, we can associate different styles of video contents via the association. First, Web images are searched by text information associated with news videos, and then matched between a keyframe obtained from the news videos and the searched images. In this talk, focusing especially on images with a large face, we attempt to match images taken from various angles and with different color tones by comparing the adjacent regions to the faces. Through experiments, news videos and Web images were accurately associated with a precision of 33% and a recall of 50%.

Keyword News contents News video Web image

1.1.

YouTube¹

¹ “YouTube”, <http://jp.youtube.com/>.

[2][3]

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SIFT

1.2

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1.2.

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SIFT

Closed Caption CC
YouTube

SNS

2.2.

[2]

[3]

1.3.

Web

Web

[4]

CC

SNS

Fan

SIFT

[5]

Web

3.

Web

3.1.

1

2.

2.1.

Web

Lowe

SIFT

[1]

Web

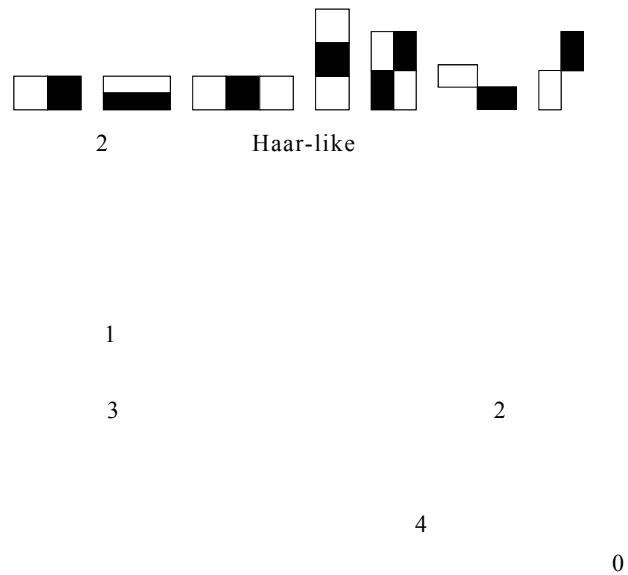
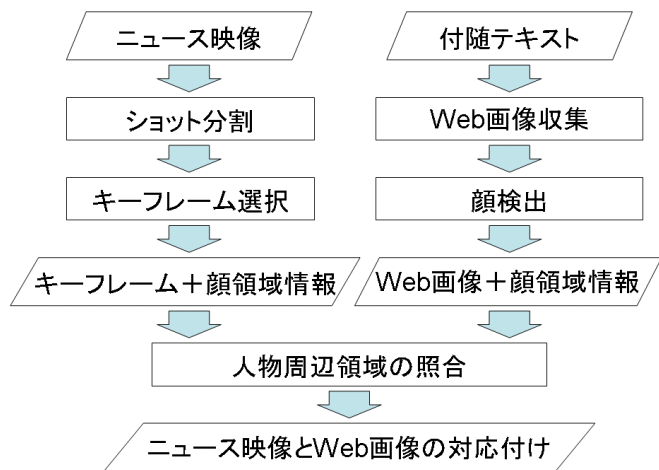
Web

Lowe

[1]

2

Web



3.2.

3.2.1.

1

2

[6]

3.2.2.

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3.3.

3.3.1. Web

Web

3.3.2.

Web

Joint Haar-like

Haar-like

[7]

2

2
Haar-like

Haar-like
Haar-like
Haar-like

Joint

3.4.

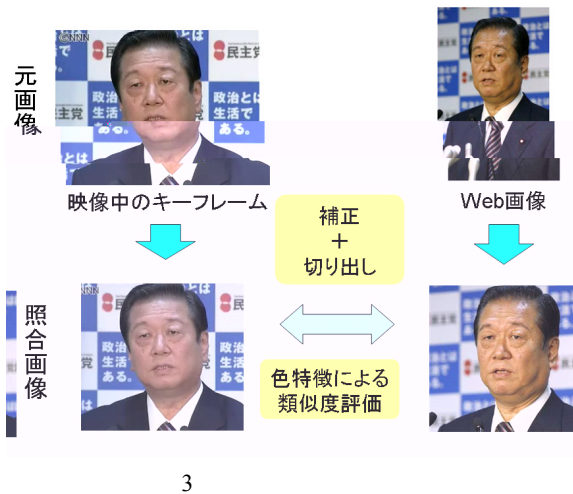
Web
Web

3.2

3.3

Web

3.4.1.



3.4.2.

3.4.3.

[8] 2

4.

Web

4.1.

NHK News7 3 SNS YouTube

1

CC YouTube YouTube

2 Yahoo!JAPAN³ Google

MeCab⁴

SDKVer.2.0

4.2.

Web

4.2.1.

Web 2

2

4

RGB

HSV

64

27

4

$27 \times 27 \times 4 = 2,916$

RGB

0.7 HSV

0.5

4.2.2.

4

4

Web

3

4

F

YouTube

3

4

Web

1

5%

RGB

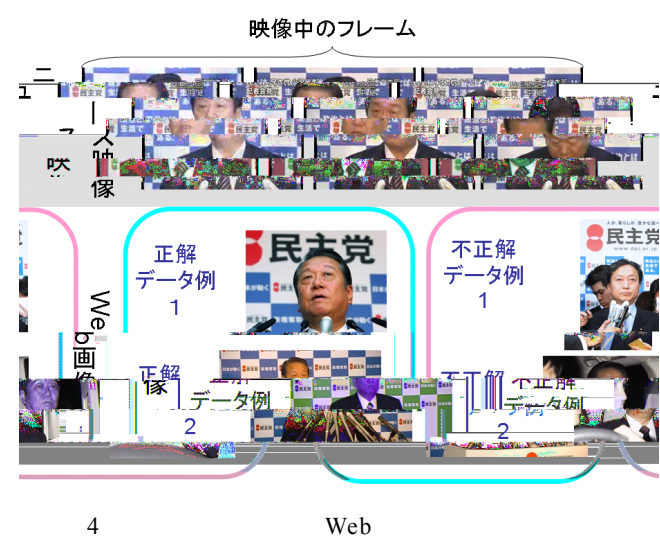
HSV

5%

² “Google”, <http://images.google.co.jp/>

³ “Yahoo!JAPAN”, <http://www.yahoo.co.jp/>

⁴ “MeCab”, <http://mecab.sourceforge.net/>



1 []			
			F
RGB +	25	42	31
RGB +	30	46	36
HSV +	26	59	36
HSV +	33	50	40

4.2.3. 4 2 Web 1 Web

HSV 33 50 4.3. 4.3.1.

4.3.2. 4 F

2 []			
			F
RGB +	16	25	19
RGB +	29	38	33
HSV +	18	38	25
HSV +	26	38	31

3			
			%
	907	39	4.3
YouTube	882	83	9.4
	1789	122	6.8

4			
			%
	393	37	9.4
YouTube	493	81	16.4
	886	118	13.3

4.3.3. 1 2 5 10%

4.4. 4.4.1.

4.4.2. 1 Web YouTube 3

2 Web 4.2

4.4.3. 3 Web 3 4 Web

5

Web

5

Web

5.

Web

5

5

Web

SNS

SNS

YouTube

Web

Web

6.

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Web

Web

SNS

- Web
- Web
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