# PRESS RELEASE

# The e-JIKEI Network Camera Abuse Prevention by Browsing-History Disclosure

8 September 2015 Gunma University Saitama University NPO e-JIKEI Network Promotion Institute

# [Time and Place]

Date: Tuesday 8 September 2015

Time: 14:00-15:30

Place: Room 502, Sou-Gou-Kenkyu-Tou Building, Kiryu Campus, Gunma University,

1-5-1 Tenjin-Cho, Kiryu, Japan

#### [Summary]

A concept, in which all the browsing-history of the images stored in each network camera is disclosed to the public on the Internet, has been proposed for preventing the abuse of the recorded images by operators, such as city officials. In order to prove the validity of the proposed concept, a prototype of "the e-JIKEI Network Camera", which consists of 8 camera units, 3 browsing devices and 1 recording server, has been developed and tested in the outdoor experimental site.

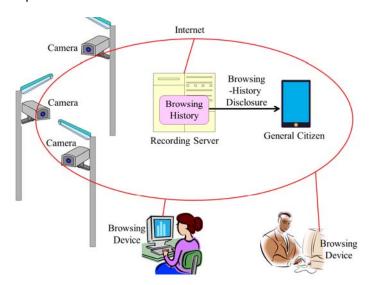


Figure 1. Concept of the e-JIKEI Network Camera Privacy Protection by Browsing-History Disclosure

# [4 steps to understand the necessity of the proposed concept]

[Step-1] It is not difficult to install street lights with networked cameras throughout the nation just like the conventional street lights, if street lights with networked cameras are mass-produced.

[Step-2] The positive effect is enormous. Very few criminals can be escaped and many kidnapped children can be rescued, if the networked cameras are installed just like the street lights throughout the nation.

[Step-3] The negative effect is also enormous. If this powerful networked camera system is abused by the criminals, such as bad city officials, the serious violation of privacy of the ordinary citizen will arise.

[Step-4] It is necessary for the powerful networked camera system to be accepted by the society that the negative effect should be perfectly prevented.

# [Prototype of the e-JIKEI Network Camera]

The features of the prototype of the e-JIKEI Network Camera based on the proposed concept are as follows, [1] Each network camera records the images continuously in the memory card inside.

- => The number of the cameras is comparable to that of the street lights operated by a city government.
- [2] To obtain/view the images recorded in the cameras, each browsing-device needs to get the permission from the recording server operated by a reliable 3third party.
- => If an officer of the city government abuses the system, the act should be exposed and he/she will be dismissed soon.
- [3] The recording server, operated by the third party, discloses all the browsing-history of the images to the public on the Internet.

# [Expected effects of the proposed concept]

If the number of the cameras is similar to (or much more than) that of the street lights throughout the nation in the near future, online operations of solving crime, such as the rescue of kidnapped children, can be implemented. The positive impact to the society is enormous. However, the negative impact of abuse of the system is not negligible.

The following effects can be expected, if the camera system is installed based on the proposed concept,

- [0] All the browsing-history of the images stored in each camera are disclosed to the public on the Internet.
- [1] The legitimate use for the legitimate and authorized purpose is encouraged.
  - => Disclosure of all the browsing history is no problem for the officers, who use the system properly.
- [2] The abuse for the non-authorized and personal purpose is strongly discouraged.
  - => An officer, who did abuse the system, will be dismissed immediately.
- [3] By [1] & [2], ordinary citizen are free from the mental stress of the violation of their privacy due to the strong camera system around them.

### [Experimental site]

Figure 2 shows the photo of the sticker of "Security camera in operation" (in Japanese) and the images taken by the 8 hand-made camera units in the experimental site.

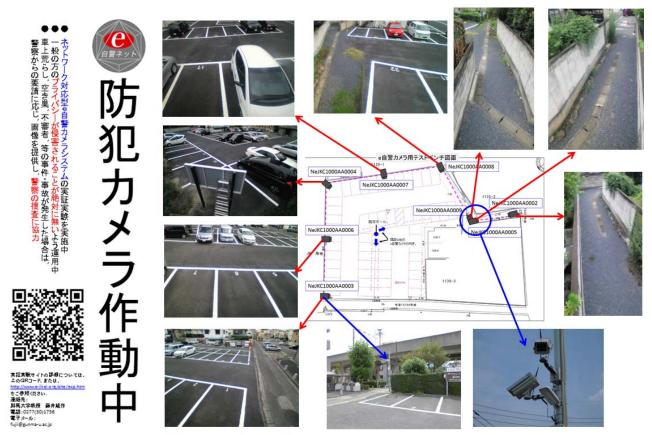


Figure 2. Sticker of "Security camera in operation" (in Japanese) and the images taken by the 8 camera units.

# [Browsing-history Disclosure website]

Recording server (in Japanese):

http://www.fmx.ics.saitama-u.ac.jp/e-jikei/print.cgi

# [Our activities]

Our activities have been introduced by some newspaper and TV.

Please see the following URL:

http://www.el.gunma-u.ac.jp/~fujii/press/e-jikei/old/press.htm

#### [Electric files for this Press Release]

http://www.e-jikei.org/site/press.htm

# [Contact point]

[Overall]

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[Recording server]

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[Camera unit]

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[Browsing software/device]

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