-PERSONALIZED REAL-TIME INFORMATION WITH SECURITY MAP-

KAGAWA Takuhiro
WADA Yoshihiro

Dept. of Computer Science & System Engineering
Kobe University
Security Information Service

Online service providing incident information for citizens

- Promote citizen’s self-protection for security and safety
- Typically distributed by ICT media (e-mail, Web)

**Violence incident**
On 7:30, June 2\textsuperscript{nd}, an instance of violence occurred near Kobe Sannomiya-station. The suspect is a young man around 25-30 years old, ran away to east....

Online incident report

Problem in Conventional Services

- “One-for-all” information
- Tend to miss important information

Security map
PRISM (Personalized Real-time Information with Security Map)

A new security information service that can
- Personalize incident information by living area of individuals
- Compute severity from distance and time
- Visualize on heat map

**Violence incident**
On 7:30, June 2\(^{nd}\), an instance of violence occurred near Kobe Sannomiya-station...
Severity of Incidents

Degree of how the incident is serious for a user

- Closer and newer incidents are more severe

Alert | Warning | Caution | Notice

Violence incident
On 7:30, June 2\textsuperscript{nd}, an instance of violence occurred near Kobe Sannomiya-station...

Kagawa
Living far from Sannomiya

Wada
Living near Sannomiya

Decay by Distance | Decay by Time
Demonstration
Using Open Data

Hyogo Bouhan Net (Hyogo Prefecture Police)
  ◦ Online incident report by e-mail and Web
    ◦ Unstructured text in HTML
    ◦ PRISM applies text-mining and stores in DB
    ◦ [Date, Time, Location, Address, Title, Contents]
  ◦ Use structured incident data for service

Institution Open Data (Kobe City)
  ◦ Fact data of public buildings in Kobe
    ◦ [Name, Address, Lat, Lng, Type, Ward]
  ◦ PRISM imports CSV data in DB
  ◦ Use as landmarks for user’s living area
System Architecture

- HTML text (Unstructured)
- Hyogo Bouhan-Net
- CSV Data
- Facilities Open Data

Scraping

Convert Address to LatLng

Import

PRISM-DB

PRISM-API

Clients (powered by Google Maps)
Conclusion

We present a new security information service PRISM

- **Personalized** Real-time Information with **Security Map**
- Information is personalized by living area of individual users
- Based on severity, real-time incidents are visualized on a heat map

Personal and real-time adaptation can add much values to open data

Try PRISM now !!!!

- **Web:** http://goo.gl/bDKejx
- **Android:** Scan this QR-code