

Demonstration Experiments of Safety Confirmation System by Use of Mobile Phone Line

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Abstract:

Earthquakes as natural phenomenon surely occur. Some great earthquakes have occurred in the Asia Pacific region for example Sumatra-Andaman Earthquake 2004, Sichuan Earthquake 2008 and Great East Japan Earthquake 2011. There will be a great earthquake in the near future in Japan, so we have to devise effective disaster prevention schemes.

It is important to get accurate and sufficient information for the disaster reduction management and the business continuity plan. We have developed some emergency information systems since Great Hanshin-Awaji Earthquake occurred in 1995. In this paper, I introduce about the emergency information system by use of mobile phone line to confirm the students' safety and show the results of demonstration experiments. The first priority of the system is to diffuse the use of the system. In order to respond to the required specification, the system is designed to use cheaply and easily.

The system can be used not only in disaster but also in normal times. The system has been used in emergency drill and to inform the students about closing of school for 4 years as the

demonstration experiments. 107 students were enrolled in the system and 28 students replied to the questionnaire of its use. Some of the questionnaire questions are shown in table 1.

Table 1 Example of the Questionnaire Questions

How was convenience of safety confirmation input?

This system can be used for safety confirmation among your family members. How do you think of its function?

Do you think such system is necessary in disaster?

Closing of school information on a university at the time of a typhoon is also mailed by this system. What do you think of such use of the system?

The results of the questionnaire made it clear that the use in normal times is important to diffuse the use of the emergency system.