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A Risk Evasion and Recovery Support System For Foreign Tourists Visiting Japan In Taking a Bus

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This research is aimed to provide more secure and convenient travel and sightseeing support for foreigners visiting Japan. In recent years, the reception strategy becomes more and more important along with the growing number of foreign travelers. According to the investigation of troubles from foreigners during their travel in Japan, this study focuses on the utilization of bus which is on the top of the demanding list.

Foreign travelers have to make decisions on transport when taking buses in Japan. Such as “Which bus should I choose?”, “Where shall I get on the bus?”, “How to take a bus?”, “what should I do when getting on the wrong ride?” “How to pay?” and so on. However, because of language barrier and travel habits, these seemingly simple things become very difficult for these foreign visitors.

This thesis demonstrates that how the support system is applied to the local of public transportation. Furthermore, two new support methods concerning avoidance utilizing open data are described. First of all, the overall situation of tourism encountered troubles, and reasons during the travel in Japan are demonstrated in Chapter 1. The previous research and case studies on tourism support and the problem points are introduced in Chapter 2. Investigations of current situation and needs of tourists visiting Japan are shown in the third chapter. Proposal and development of the evasion and recovery support system are exhibited in Chapter 4. Support for evasion provides functions such as sightseeing

information, bus route generation, bus stop confirmation, bus confirmation, destination arrival presentation and so on. Support for recovery provides functions such as ride mistake judgment, the flow of getting off, route representation to the destination, etc. An evaluation of experiments is conducted as described in Chapter 5. According to the final evaluation of experiments, tourists can visit Japan confidently without preparations.