

DEVELOPMENT OF TRANSIT INFORMATION ASSISTANT SYSTEM FOR THE VISUAL  
IMPAIRED IN A MULTIMODAL TRANSIT ENVIRONMENT

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Abstract

The objectives of this paper were to identify the problems and requirements of the visual impaired in the transit environment by questionnaire survey and develop a transit information assistant system base on the APTS technology. The questionnaire includes forty items under six categories to understand the difficulties and requirements for of visual impaired in the transit environment. Regarding the investigation results, the major requirements including trip planning, identify the location of accessible station and correct vehicle. This paper also designed the system architecture of TIAS base on the smart phone or any portable navigation device (PND), database server and application server.

Keyword : transit information assistant system, portable navigation device, APTS